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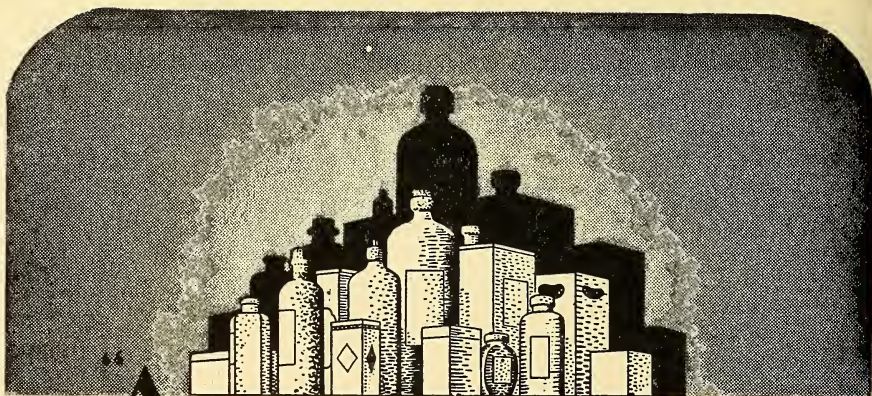
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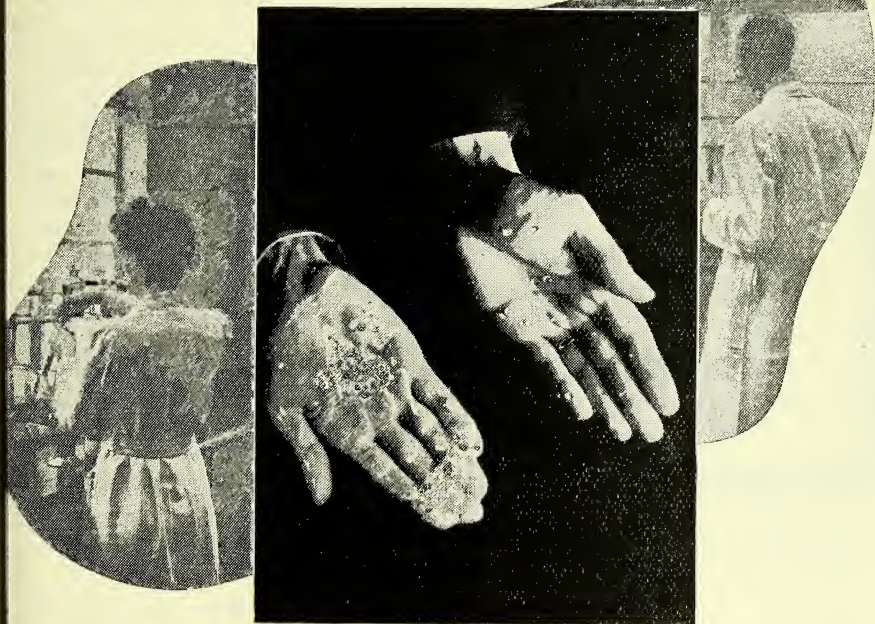
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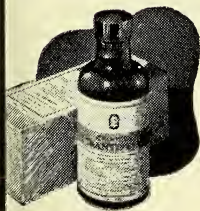
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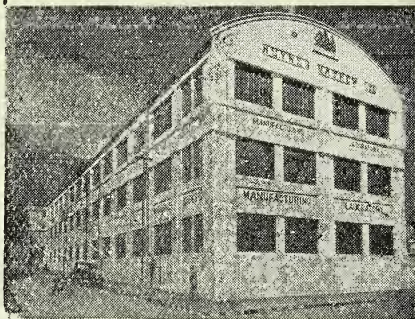
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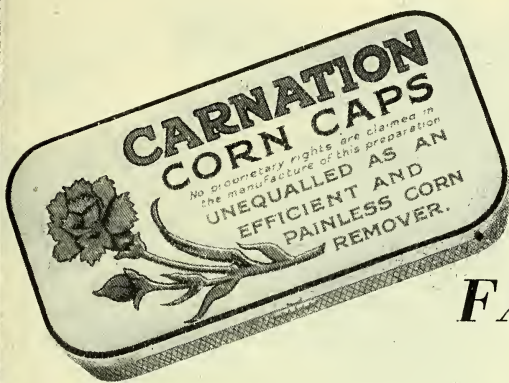


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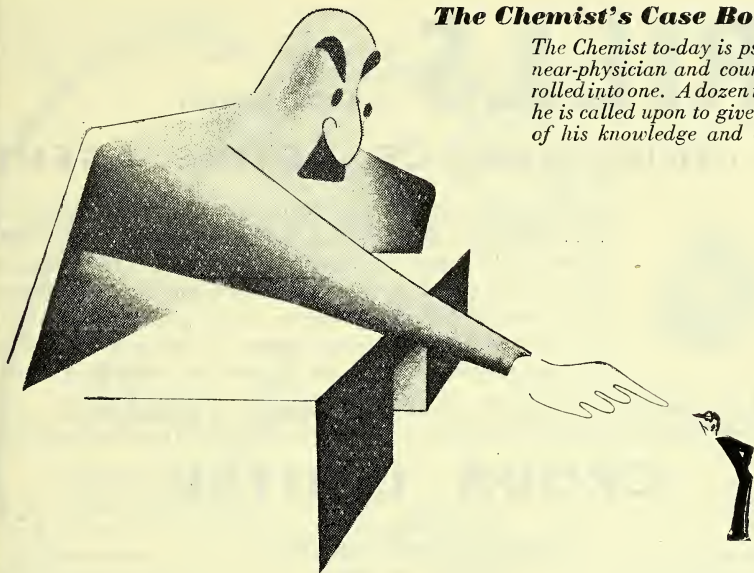


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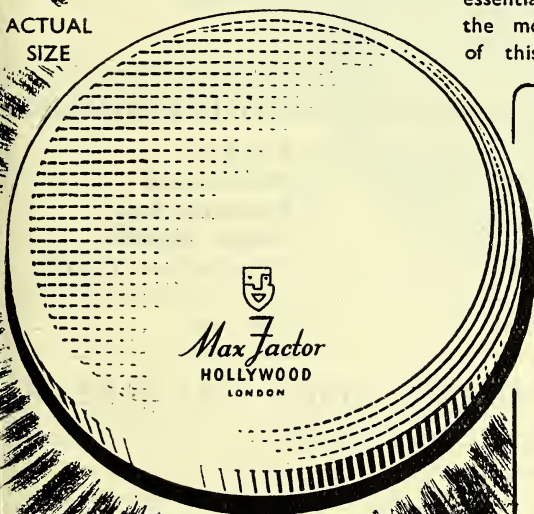
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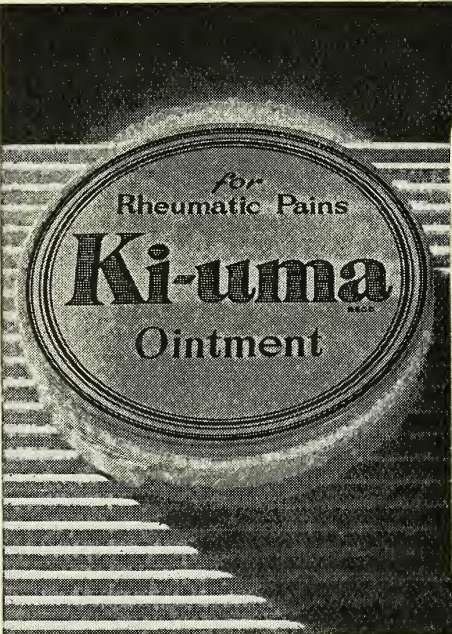
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NEWS OF THE WEEK

Assistant Secretary in Scotland.—Dr. David McCall, B.Sc., Ph.C., F.L.S., has been appointed Assistant Resident Secretary of Scotland of the Pharmaceutical Society. (p. 305.)

Toilet Requisites Price Control.—The Board of Trade has issued an amending Order (S.R. & O., 1947, No. 474) under which toilet requisites affected by the Toilet Requisites (Maximum Prices Order), 1942, revert to control under the Prices of Goods Act.

Liquor Bromidi Compositus, B.P.C.—The revised formula which the Codex Revision Committee has recommended for liquor bromidi compositus, B.P.C., omitting extract of cannabis to place the preparation outside the Dangerous Drugs requirements of the C. & D., March 15, p. 285), comes into force on June 1.

Chemists' Sales in January.—Sales of independent retail chemists in January showed an average increase of 6 per cent. over sales in the corresponding 1946 period. They were, however, 20 per cent. less than the high level registered in December 1946.

The December peak is accounted for by the Christmas seasonal rise. Statistics for "fancy departments" indicate that sales of "larger" chemists were 14 per cent. higher in January than in the same month of 1946.

Scottish Liver Extract Supply.—Restrictions on the supply in Scotland of oral liver extract and preparations for oral administration containing liver extract, and on the administration of oral liver extract to patients, have been removed by the Liver Extract (Regulation of Use) Revocation (Scotland) Order, 1947 (S.R. & O., 1947, No. 397/S.11). Similar restrictions applying to England were removed in January (see C. & D., January 18, p. 67).

New Elements Named.—Three out of four elements previously missing from the periodic table (by-products of nuclear research to which claims of discovery have been raised and refuted later) have been named recently by their discoverers. They are element 43, named by Perrier and Segrè technetium (symbol Tc), from the Greek *τεχνητος*, artificial, in recognition of the fact that technetium was the first artificially made element; element 85, named

by Carson, Mackenzie, and Segrè astatine (symbol At), from the Greek $\alpha\sigma\tau\alpha\tau\omicron\varsigma$, unstable, as astatine is the only halogen without stable isotopes; and element 87, named francium (symbol Fr).

Pharmaceutical Apparatus Lecture.—A lecture on "Recent Developments in Pharmaceutical Apparatus" was given at an Evening Meeting of the Pharmaceutical Society in London on March 13 by Mr. William C. Peck, M.Sc., F.R.I.C., M.I.Chem.E., A.M.I.Mech.E. Mr. Peck outlined the theory underlying the unit processes of heat transfer, evaporation, drying, etc., used in pharmaceutical manufacture, and related the underlying principles to the design of plant for each process. The lecture was illustrated by lantern slides. A vote of thanks was proposed by Mr. C. W. Maplethorpe (chairman of the Education Committee of the Society's Council) and seconded by Professor H. Berry (Dean of the Society's College).

Chemists' Defence Association.—At a recent meeting of the Chemists' Defence Association, the following settlements on behalf of members were reported:—Payments of £35 10s. in settlement of a claim arising from the sale of a proprietary medicine containing glass; £65 (including costs of claim) in connexion with camera received by a member for repairs; £100 in settlement of claim for personal injuries caused by use of hair dye; £20 for damages due to the sale of medicine containing tinct. chlorof. et morph.; £2 to cover damage to a customer's shoes due to a faulty pavement light outside a member's premises. Legal advice provided by the Union's solicitors included a number of inquiries concerning leases of premises.

Scottish Pharmaceutical Federation.—A meeting of the executive council of the Scottish Pharmaceutical Federation was held in Edinburgh recently, Mr. Charles A. Buick (president) in the chair. The reports of the Chemists' Federation Council for 1946 and of the Scottish Committee were submitted, Mr. W. T. Elder reported on meetings of the C.F. Council which he had attended in London. It was decided to urge chemists who had not yet completed replies to a questionnaire issued to Scottish chemists by the Pharmaceutical Standing Committee (Scotland) to do so as soon as possible. An amended draft agreement between the Federation and the Union of Shop, Distributive and Allied Workers was submitted and approved, and it was

decided, before ratification, to send a copy to all retail chemists in Scotland. On the recommendation of the finance committee it was decided to increase the annual subscription to the Federation by 5s. per shop from May 1, 1947. The secretary's report was approved. It referred to correspondence with a manufacturer whose present wholesale discount to chemists of 25 per cent. was considered inadequate; advice given to a member of labelling hydrogen peroxide, to two members on negotiations with their landlords and to a member about opening a village business.

LOCAL NEWS

Blackpool Junior Branch.—A Junior Branch of the Blackpool Branch of the Pharmaceutical Society has been formed with the following officials:—*Chairman*, Mr. J. Walker Blundell; *Deputy Chairman*, Mr. R. Stuttard; *Treasurer*, Mr. J. W. Croker; *Sports Secretary*, Mr. T. Perkins; *Secretary*, Miss L. I. Anderson, Corbière Normoss Road, Newton, Blackpool.

Reigate Association Dinner.—The first post-war dinner of the Reigate and Redhill Pharmacists' Association was held recently in Coulsdon, Mr. E. L. Gwynne (president) in the chair. Among the guests were Messrs. J. C. Young (a member of the Pharmaceutical Society's Council), D. W. Hudson (president, Brighton and Hove Association of Pharmacy) and F. C. Wilson (secretary Surrey Pharmaceutical Committee).

Wembley Rota Discussion.—At a recent meeting of the Wembley Chemists' Association, Mr. E. Ratcliffe (president) in the chair, a discussion took place on closing times and the local rota service. Mr. R. H. Rowson (chairman, Middlesex Pharmaceutical Committee) gave an account of the various committees involved in the administration of National Health Insurance dispensing.

Bournemouth Association Officers.—At the annual meeting of the Bournemouth Pharmaceutical Association recently, the following officers were elected:—*Chairman*, Mr. L. J. Owen; *Vice-chairman*, Mr. L. Sloper; *Treasurer*, Mr. E. H. Barnett; *Secretary*, Mr. H. Ridehalgh, 712 Wimborne Road, Bournemouth; *Committee*, Messrs. D. Dalis Jones, N. K. Phillips, S. P. Hammond, T. L. Harding, F. Shore, and A. F. Attwell, with Mr. M. Fay, *ex-officio*.

Walsall Dinner.—"The National Pharmaceutical Union" was proposed, at a recent dinner of the Walsall Branch, by Mr.

C. Jackson. Mr. R. H. Kemp (local organisations officer, N.P.U.) said in reply that he looked forward to the time when the pharmacist's business would be centred on his dispensary. Other speakers were Messrs. J. Tindale, W. H. Careless, F. A. C. Annister, and Dr. A. B. Davies (chairman, allsall Insurance Committee). During the evening Mr. E. M. Elliot made a presentation to Mr. H. B. Webster, who for thirty-three years had been clerk to the Insurance Committee. The dinner was arranged by Mr. K. V. Hartshorne (secretary) and Mr. J. B. Shelley was in the chair.

Annual Meeting in Truro.—The following officers were re-elected at the annual meeting of the Cornish Branch of the N.P.U., held recently in Truro:—*Chairman*, Mr. A. T. Opie; *Vice-chairman*, Mr. D. Jackson; *Secretary and Treasurer*, Mr. A. C. Cannon, 31 Boscawen Street, Truro; *Committee*, Messrs. D. Pengelly, R. Underhill, C. E. Pearce, H. Jory, E. C. Truscott, R. H. Gillis and G. L. Utt. Reports were given by the chairman, and by the secretary and treasurer, on the branch's work during the year. Mr. F. E. Attershill described the work of the N.P.U. Executive Committee and its associated organisations, and appealed for greater support by chemists of the Chemists' Association.

Manchester Education Discussion.

Three papers on pharmaceutical education were read at a recent meeting of the Junior Branch of the Manchester Pharmaceutical Association. Mr. C. Mellor, M.P.S., spoke on "Apprenticeship and Conscription," Mr. H. Burlinson, Ph.C., on "Academic Training," and Mr. J. Dawson, M.P.S., on "Qualification and Registration." In a discussion on the Interim Report on Education issued recently by the Education Committee of the Pharmaceutical Society (see *C. & D.*, March 8, p. 254), most speakers favoured a period of practical training after the academic training. A resolution was passed condemning a two-year Ph.C. course as "a continuation of the present system of cramming," and suggesting a modified two-year Ph.C. course, including modern pharmaceutical technique, to replace the present Chemist and Druggist Qualifying examination.

Guild Affiliation Discussion.—A proposal that the Guild of Public Pharmacists should affiliate with the Association of Scientific Workers was debated at a recent meeting of the London Branch of the Guild. Mr. J. R. Elliott (chairman) spoke in support of a motion approving the action of the committee of the London Branch in wishing to place on the agenda of the Branch's annual meeting a resolution call-

OFFICERS OF THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN AND IRELAND—Group taken at Parliament Building, Stormont, Belfast, during a visit of the president, vice-president and secretary recently (see p. 300). Front row, Mr. H. N. Westhead, M.P., (secretary), Pharmaceutical Society of Great Britain, Mr. G. R. Knox (president), Mr. J. K. Irvine (vice-president), Mrs. H. H. Gwiler, and Mr. John Gregor (vice-president), Pharmaceutical Society of Northern Ireland). Back row, Messrs. W. Gorman (secretary, Pharmaceutical Society of Northern Ireland), J. H. Paterson (pharmacy inspector), H. H. Cowzer (treasurer, Pharmaceutical Society of Northern Ireland) and R. H. Wright (Ministry of Home Affairs).



ing on the Guild Council to arrange such an affiliation. Among others who supported the motion were Mr. H. A. Robinson, who thought an affiliation would strengthen the Guild and ease its financial difficulties, and Mr. L. Edwards who said no loss of status need be feared: status was directly related to salary. Mr. Ben Smith (national organiser, A.Sc.W.) said he was anxious to see all hospital pharmacists in one union. In a period of retrenchment, the interests of all workers would lie in unity. Mr. J. Moore (Guild joint secretary) opposed the motion as premature, and said the Guild should first consider whether or not to become registered as a trade union. Mr. A. G. Shaw (Guild vice-president) thought the motion ill-considered; the correctness of the Guild's policy was evident from the number of new members. Mr. D. Currie (Guild president) also opposed the motion. The discussion continued for three hours and many members had left before the end of the meeting. On a vote being taken, the motion was defeated by thirty votes to eighteen.

IRISH NEWS

Diabetic Bread in Eire.—Under an Order made by the Eire Minister for Industry and Commerce, bread rationing restrictions do not apply to diabetic bread sold in Eire by pharmaceutical chemists on the production of a medical certificate.

Eire Minister for Health.—Among the functions transferred by the Eire Government from the Minister for Local Government to the Minister of Health on March 18 are the prevention and cure of disease, the regulation and control of the training and registration of persons for health services, and the initiation and direction of research concerned with health matters.

Attempt to End Dublin Strike.—An attempt to end the strike of wholesale drug employees in Dublin was made recently by Mr. J. K. Whelehan (president, Pharmaceutical Society of Ireland) who invited representatives of the strike committee and of the Irish Drug Association to a conference at the Society's premises. In calling the conference, Mr. Whelehan said the continuance of the dispute would seriously affect health services in Eire. The conference was held on March 11; no agreement was reached.

Deputation to Belfast.—A deputation consisting of Mr. G. R. Knox Mawer (president), Mrs. J. K. Irvine (vice-president) and Mr. H. N. Linstead (secretary),

representing the Pharmaceutical Society of Great Britain, was received in Belfast recently by Mr. J. W. Gray, J.P. (president, Pharmaceutical Society of Northern Ireland) who was accompanied by Mr. John McGregor (vice-president), Mr. William Gorman (secretary) and members of the Council. During their four-day visit, Mr. Knox Mawer and his colleagues attended a meeting of the Council of the Pharmaceutical Society of Northern Ireland in Belfast on March 12. Later Mr. Linstead addressed a large gathering of pharmacists at the Belfast College of Technology on the National Health Service Act. At an informal meeting on March 11, the visitors from Great Britain took part in a discussion on pharmaceutical topics with members of the Northern Ireland Council and with Mr. Gibson (president, Ulster Chemists' Association) and other members of the Executive Committee of the U.C.A. Pharmacy classes at Belfast College of Technology were inspected, and on March 13 the visitors were received by Councillor R. B. Alexander M.P. (deputy Lord Mayor of Belfast). Visits were also paid to the Parliament Buildings at Stormont, and to a number of factories

Farewell Social in Belfast.—Mr. James McClenahan, who recently resigned secretary of the Ulster Chemists' Association, was the guest of honour at a social evening held recently in Belfast, Mr. Gibson (president of the Association) in the chair. Paying a tribute to Mr. McClenahan's tact, courtesy and helpfulness, Mr. Gibson said that the members of the Association were unanimous in wishing to honour him. The presentation of a clock and a cheque, subscribed for by members of the Association, was made by Mr. Alexander Steeds, who said that Mr. McClenahan, the first whole-time secretary, had carried out his manifold duties with great ability. During his period of office the Association's membership had gone up by leaps and bounds. Presenting a set of carvers and a cheque, on behalf of the Associates' Section, Mr. E. H. Barr thanked Mr. McClenahan for his help in forming the section. Tributes to Mr. McClenahan were also paid by Messrs. W. J. Rankin, John McGregor (vice-president, Pharmaceutical Society of Northern Ireland), J. Guiler, A. E. Johnston and J. H. McKnight and by Miss A. E. Strachan (secretary in succession to Mr. McClenahan). In reply, Mr. McClenahan said the rise of the Association had been due largely to the enthusiasm of the various presidents.

TOPICAL REFLECTIONS

Discussion on Education

The discussion at the March meeting of Pharmaceutical Society's Council on the possibility of including educational policy in the agenda of a branch representatives' meeting (p. 284) enables me to add a few remarks to those on educational policy in section of your last week's issue. When final report of the Council's Education Committee is published, we shall be able to judge the Committee's proposals more fully than we can now. Meanwhile it is instructive to find a divergence of opinion between the chairman of the Organisation Committee, who took the broad view that such representatives might be given an opportunity to discuss pharmaceutical education, and the chairman of the Educational Committee, who took the narrow view that educational policy was unsuitable for discussion by these representatives. The opinion given by the latter speaker for his own (and that of his committee), that decisions on that subject were the Council's responsibility," can hardly be justified except by the exercise of a casuistry more appropriate to mediæval philosophers than men in touch with the affairs of today. The remark made by the Society's treasurer during this discussion was much to the point: he suggested that too high a standard of education might, for economic reasons, divert candidates to medicine. I agree. Already the passing of a qualifying examination in pharmacy is costing several pounds as much as it did fifty years ago. A proposal made at the same meeting, to enable chemists and druggists to take the Pharmaceutical Chemist Qualifying examination by means of evening tuition, will be read with interest by your readers.

Dispensing Fees

The subject discussed in the preceding paragraph has a bearing on the fees chargeable for dispensing. A letter on p. 284 from Mr. F. C. White and Mr. J. P. Ford calls attention to an anomaly arising from over-simplification in N.H.I. payments to panel chemists; and a few weeks ago Mr. J. M. Williamson of Glasgow gave a glaring instance of an insufficient fee for making a compound powder. (Mr. Williamson's prescription was for 25 oz. of powder, at the fee was 8d.) When a new drug tariff is being negotiated under the National Health Service, such inequalities in the scale of fees should be dealt with effectually.

Now I return to the remark of the Pharmaceutical Society's treasurer on a possible decrease in the number of candidates for examination. If it is to cost an average of, say, £500 to qualify as a pharmacist, it will take a good many eightpenny fees for dispensing mixed powders to justify the outlay. And while proprietors of pharmacies are making their returns to the Joint Committee on a National Pharmaceutical Service, they will, I suggest, be wise to check their systems of pricing private prescriptions. A few days ago a friend showed me a prescription for a mixture of a simple type: it had been dispensed in three pharmacies in a provincial city, and the prices charged varied so considerably that the friendly co-operation described in your columns not long ago must have been lacking there. Private dispensing is not likely to die out just yet; so this incident carries its own inference.

Richard Siddall

Not much is known about Richard Siddall, the eighteenth-century chemist mentioned in your account of Dr. George Urdang's new book (p. 281). What is known about him is to his credit. His superb trade card shows him to have been a forerunner of the "art on the hoardings" movement that came in during the latter years of the nineteenth century. About the date of the James-Schwanberg rivalry in fever powders he was in partnership with a Mr. Daniel Swan: presumably, therefore, his trade card (which Sir Joseph Banks, P.R.S., left undated in his collection) was issued either before that date or, less probably, after the partnership had ended. In the quaint tests carried out to determine the respective values of James's and Schwanberg's fever powders the adjudicators were (in addition to Siddall) a gunsmith, an undertaker, a doctor of medicine, a surgeon, an "experimental philosopher," a mineralogist, an engraver and a "face painter." The first test in a "wind furnace" began at 4.2 p.m., and lasted for twelve minutes; the second test at 6.14 p.m., lasting for seven minutes. From the second proceedings Siddall was absent, and his place was taken by another man. We may assume Siddall had seen enough during the first test to convince him that a further experiment on the same lines would be a waste of time, or alternatively that he had arranged to take charge of the shop and let his partner go off duty.

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MYERS OF OLD STREET (THE PHARMACY FITTERS), LTD. (P.C.).—Capital £100. To carry on business of pharmacy fitters, etc. Matilda Myers and Fay Myers, directors. R.O.: 9 Mansfield Street, London, W.1.

WHITFIELD BOTTLE CO., LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in medicine and other bottles, flasks, stoppers, etc. J. Whitfield and E. Morton, directors. R.O.: Quarry Hill Road, Wath-on-Dearne.

WM. FINDLATER & CO., LTD (P.C.).—Capital £1,000. To carry on the business of manufacturing chemists, etc. William Findlater, John W. Thompson and Ian T. Findlater, directors. R.O.: 78/80 Pitt Street, Newcastle-on-Tyne, 4.

WILSON (CHEMIST), LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing and general chemists, etc. Wilfred A. Wilson and Mrs. Gladys E. Wilson, directors. R.O.: High Street, Selsey, Sussex.

NERVAC, LTD. (P.C.).—Capital £100. To acquire the business of a manufacturing chemist heretofore carried on by Maurice A. Simmons at Central Pharmacy, Leyland. Maurice A. Simmons and John Bradshaw, directors.

EDGAR ALLAN, LTD. (P.C.).—Registered in Dublin. Capital £10,000. To acquire the business of chemist now carried on by Peter Slattery, M.P.S.I., at 5 Fairview Strand, Dublin. First directors are not named.

CHARLES CHARNLEY, LTD. (P.C.).—Capital £1,000. To acquire the business of a chemist carried on by Charles Charnley at The Grove Pharmacy, Grove Street, Wilmslow, Ches. Charles Charnley, Charles R. Charnley and Mary Charnley, directors.

COPE & TAYLOR, LTD. (P.C.).—Capital £10,000. To acquire the business of a chemist and druggist carried on as Cope & Taylor at 3 Market Place, Derby. Samuel Taylor, William O. Roberts and Leonard W. Howard, directors.

WILLSONS (DONCASTER), LTD. (P.C.).—Capital £5,000. To acquire the business of a manufacturing and wholesale chemist heretofore carried on by Reginald Edwards at Balby and Doncaster as "Willsons." Reginald Edwards and Christina Edwards, directors. R.O.: High Road, Balby, Doncaster.

MEV PRODUCTS, LTD. (P.C.).—Capital £10,000. To acquire the business of manufacturers, wholesalers and retailers of insecticides, toilet and medicinal preparations etc., now carried on as "Mev Products" at Hoylake Road, Moreton, Ches. Alfred R. McNaught, Florence McNaught, William J. Evans and Donald W. Smyllie, directors. R.O.: 1 Borrowdale Road, Moreton, Ches.

WILLIAM BLAIN & SONS, LTD. (P.C.).—Capital £2,000. To acquire the business of a chemist carried on by the executors of the late William Blain at William Blain & Sons at Market Street Bolton. Alice, Margaret and Robert Farrworth, all of Beaumont, Heaton, Bolton and James Foster, Inglewhite Place, Mesne Road, Wigan, directors.

SAVORY & MOORE, LTD.—Net profit, after making provision for taxation, for the year ended March 31, 1946, was £32,767, compared with £15,280 for the previous year. Dividends, less tax, paid on preference stocks amounted to £15,891 against £14,035; £5,000 was transferred to the general reserve account and a balance of £34,19 was carried forward.

ILFORD, LTD.—Net profit for the year ended October 31, 1946, amounted to £173,55 (£96,199) after income tax deduction of £133,670 (£97,489). Contingencies reserve allocation, £80,000 (£40,000). Dividend on ordinary shares, 15 per cent. (10 per cent. plus 2½ per cent. bonus). Consolidated balance sheet shows current assets of £2,539,294; the corresponding liability amount to £993,439.

TENDERS INVITED FOR SHARES.—A notice issued by the Board of Trade and published in the "Board of Trade Journal," dated March 8, (p. 334) invites tenders for the purchase of 40,000 ordinary shares of £1 each, full paid, in Bayer Products, Ltd. A copy of the particulars of sale, the special conditions of sale and tender form may be obtained on application to the Trading with the Enemy Department (Treasury and Board of Trade, T.E.A.), 24 Kingsway, London, W.C.2. Tenders should be delivered to the above address not later than 10 a.m. of April 15.

BUSINESS CHANGES

EAST ANGLIAN WHOLESALE SUPPLIES, Day Side, Norwich, have appointed Mr. W. Whitehead, Ph.C., manager of their export department.

SHELL CHEMICALS, LTD., 112 Strand, London, W.C.2, is the title adopted by the company formerly known as Technical Products, Ltd.

VIRGINIA'S HOLLYWOOD PREPARATIONS (1936), LTD., 512 Ipswich Road, Trading Estate, Slough, Bucks, have appointed Mr. S. Clack export manager.

The telephone number of **CLAPTON WHOLESALE Co.**, 159 Lower Clapton Road, London, E.5, has been changed to Amherst 6-37.

WHALEY BRIDGE AND BUXTON CO-OPERATIVE SOCIETY, LTD., have acquired the pharmacy at 20 Market Street, Whaley Bridge, nr. Stockport, formerly carried on by Mr. T. H. Coates, M.P.S.

BOOTS PURE DRUG CO., LTD., have re-located the London office of their wholesale export department to 71 Fleet Street, London, E.C.4. (Telephone: Central 61-02).

ASHLEY & WEEKS, LTD., 165 Mitcham Road, Tooting, London, S.W.17, have appointed Mr. N. S. Lewis sales representative in the northern area of Britain, in place of Mr. Dunkley, who has been transferred to the south-western area.

LYRSTON, SAUNDERS & Co., LTD., 34 Fover Street, Liverpool, 1, have appointed Mr. Norman Driver, Ph.C., to their staff of analysts. Mr. Driver recently returned from India where he served with the Royal Army Medical Corps.

THE BRITISH DRUG HOUSES, LTD., 111 Chancery Lane, City Road, London, N.1, have appointed Mr. R. E. Stuckey, B.Sc., Ph.D., Ph.C., F.R.I.C., chief analyst at their London works. Mr. Stuckey takes up his appointment on April 1 on the retirement of Mr. T. T. Cocking.

The personal products division of **JOHNSON & JOHNSON (GREAT BRITAIN), LTD.**, which supplies Modess sanitary towels, tampons, belts and Meds tampons, has moved to Exham, Denbighshire, and chemists are asked to order from that address. The site is within the Government's schedule of Development Areas.

GROSSMITH & SON, LTD., 45 Piccadilly, London, W.1, have reappointed Mr. T. F. Fiches, 68 Parkside, Beeston, Notts, as their representative in the counties of Nottingham, Derby, Lincoln, Leicester, Rutland and in southern Yorkshire. Mr. Fiches recently returned from the Royal Air Force, in which he served as a Squadron Leader.

LEGAL REPORTS

Failure to Keep Records.—Fines totalling £7, with £4 6s. 6d. costs, were imposed at Portglenone Petty Sessions, co. Londonderry, recently on T. McErlean & Co., Clady, for failing to keep records of sales of methylated spirit and for not affixing proper labels.

Methylated Spirit for Drinking.—A fine of 40s., or one month's imprisonment, was imposed on James McCann at Belfast police court recently for having in his possession two bottles of methylated spirit for the purpose of drinking. McCann held a doctor's prescription for methylated spirit for rheumatism.

Prison on Conspiracy Charge.—Sydney Tatlow, manufacturing chemist, Market Street, Eckington, nr. Chesterfield, was sentenced to eighteen months' imprisonment at Leeds Assizes recently on charges of conspiring with others to acquire gelatin in excessive quantities. It was stated that Tatlow was sentenced in 1944 to fines totalling almost £1,000 for similar offences.

Appeal Dismissed.—The Ulster Court of Criminal Appeal has dismissed an appeal brought by Thomas Edward Stephenson, registered druggist, Wellington Street, Belfast, against a conviction for the manslaughter of a girl on whom he was alleged to have performed an illegal operation. On account of his age (sixty-two) the sentence was reduced from six to four years' penal servitude.

Fine for Iodine Deficiency.—For selling solution of iodine containing less than the correct percentage of pure iodine, Albert Edward Abrahams, 147 Holloway Road, London, N.7, was fined 40s., with £2 2s. costs at North London magistrate's court on March 14. He pleaded guilty. The article was found deficient in iodine to the extent of 30.4 per cent; it contained 1.74 per cent of iodine, instead of 2.5 per cent.

Combs Too Highly Priced.—At Bangor, co. Down, Northern Ireland petty sessions on February 5, Robert McCutcheon, Ph.C., Main Street, Bangor, was fined 20s. for offering combs for sale at 2½d. above the maximum retail price of 6½d. In a summons for offering other combs at ½d. in excess, he was given the benefit of the Probation of Offenders Act. On a summons for not displaying a notice giving the maximum retail prices in relation to the goods, he was fined 20s. He was also ordered to pay £4 16s. costs.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

IN the House of Commons on March 12, MR. PETER FREEMAN asked the Minister of Food whether, in view of the shortage and high price of olive oil, he would take steps to increase the supply of coconut, linseed, sunflower seed and other vegetable oils to meet the demand for medicinal and other domestic purposes. DR. EDITH SUMMER-SKILL replied that arrangements were being made to increase the amount of olive oil allocated for sale on medical certificates. In addition, the Ministry would continue to be prepared to supply groundnut oil on application as an alternative to olive oil where this was recommended by the doctor. The supply of other vegetable oils mentioned was not sufficient to permit of any general distribution. Arrangements would be made for the distribution of olive oil for domestic purposes so soon as it was possible to import a sufficient supply for the purpose.

Costs of Ceylon Oils

MR. W. FLETCHER asked the Minister of Food the average cost to date, including export duty, of copra and coconut oils bought from the Ceylon Government under the existing five-year contract. DR. SUMMERSKILL replied that the average c.i.f. costs per ton of copra and coconut oil shipped from Ceylon since the five-year contract was entered into were £37 1s. 1d. and £60 7s. 1d. respectively.

Babies' Feeding Bottles

COLONEL CLIFTON-BROWN and MR. E. M. KING asked the President of the Board of Trade on March 13 if he was aware that babies' feeding bottles were practically unobtainable, and what steps he was taking to increase the supply. SIR STAFFORD CRIPPS said he was aware that there was unfortunately a general shortage at present of medicine and babies' feeding bottles, a shortage temporarily accentuated in the eastern counties by transport difficulties. He had every hope that supplies would soon improve.

Chlorine Prices

MR. J. LEWIS asked the President of the Board of Trade "to what extent it was estimated that the production costs of D.D.T. could be reduced were chlorine available at the same price ex works as in the United States, namely, £9 15s. per ton. SIR STAFFORD CRIPPS replied that he

was not in a position to make that estimate.

MR. LEWIS also asked for the names of the three firms responsible for production of chlorine in the United Kingdom; the proportion for which each was responsible and the price at which it supplied material in bulk ex-works. SIR STAFFORD CRIPPS replied that the known producers of chlorine were Imperial Chemical Industries, Ltd., Staveley Coal and Iron Co., Ltd. and L. Dennis & Co., Ltd., Manchester. The latter company were, however, understood to produce only sufficient chlorine for their own requirements. It would not be in accordance with established practice to disclose such information. On the third part of the question, he assumed Mr. Lewis was referring to bulk delivery in tank wagons. Only I.C.I. delivered in that way and he understood prices were on a delivered-to-consumer and not on an ex-works basis.

Important Change in Transport Bill

An announcement vital to British Industry was made to the Standing Committee of the Transport Bill by the Minister of Transport (Mr. Alfred Barnes). MR. BARNES announced that the Government had reconsidered the provisions of the Bill relating to "C" licences and had decided not to proceed with them. "We have become aware of the increasing anxiety of industry generally concerning those provisions," he said. "The provisions in the Bill with regard to 'C' licences were eminently reasonable in my view, and do not think they would have unduly interrupted their normal operation. In fact I think the proposed process of regulation would have been found an advantage in the long run, because it would have prevented the possibility of recurrence of the problems that arose following similar legislative changes between 1921 and 1925 when certain consequences followed from lack of decision."

It was recognised that there were times when certain psychological fears were promoted and, no matter what steps were taken to allay them in a legitimate way, the purpose was not accomplished. "C" licences covered the majority of vehicles on the road. Over 300,000 were in use in the wholesale and retail trade, in merchandising, manufacturing and every other kind of business. Taking into consideration the difficulty in trade generally in the immediate

post-war period, and the many matters that would necessarily occupy the time of the managements of these organisations, the Government had decided not to proceed for the time being with the clauses dealing with the "C" licences. If, by any chance, the facilities were abused, they would not hesitate to take steps to put it right."

During subsequent discussion of the "B" licence vehicles, BRIGADIER PRIOR-PALMER demanded exemption for the carriage of dangerous drugs. This was the strongest case of all for exemption from the Bill, he said. It was a specialised form of carriage for such things as calf lymph, suppositories that melt, fragile medical and surgical supplies, all of which needed the most careful

and expert handling by people who had been in the trade for years and knew their job backwards. It would be remembered that there were provisions with regard to dangerous drugs. They had to be carried in special vehicles. Opium and cocaine could not be carried in any vehicle in which any other drug was carried. "Open" packing had been the practice in the delivery of drugs. If they were to be carried by a nationalised concern that would be thoroughly uneconomic unless the lorries were capable of carrying other goods as well. That would entail the whole of the drug industry turning over to "closed" packing, with which the "little drug stores" would not be able to cope.

PERSONALITIES

MR. KENNETH CARTER, M.P.S. (secretary, research liaison officer, Therapeutic Research Corporation of Great Britain, Ltd.) has recently graduated M.R.C.S., R.C.P., after studying medicine at University College Hospital, London.

MR. P. R. W. SHINNER, M.P.S.N.I., 565 Strim Road, Belfast (a member of the Council of the Pharmaceutical Society of Northern Ireland) recently staged a window display illustrating the numerous by-products obtained from coal, and indicating how much useful material is wasted when coal is used solely for fuel. The display attracted much attention in Belfast.

As the result of a paragraph describing his recent visit to the offices of THE CHEMIST AND DRUGGIST (see *C. & D.*, 1946.II.698), Mr. Frederick Crawley Beauchamp has heard news of an old friend, MR. ARTHUR GEORGE SURFLEET, 156 Newbury Road, Bridlington, whom he had not seen for nearly sixty years, and with whom he was a student at the Westminster College of Pharmacy in 1888.

MR. A. H. MUNROE (export sales manager, Halex, Ltd.), has returned from a business tour by air covering Burma, Ceylon, India and Egypt. In Burma, he says, which is short of consumer goods, the United States has not entered the market owing to currency restrictions, but Ceylon and India have been "flooded with American goods at 50 per cent. below British prices," while Egypt is also being inundated with cheap goods from America and Italy. The sellers' market in the Middle and Far East has disappeared, but "this is a good thing, for the salesman really has a job to do now."

MR. STANLEY HAYWOOD, M.P.S., 13 Mealhouse Lane, Bolton, who was recently

elected president of the Bolton Pharmaceutical Association, has been president of the Bolton Chamber of Trade for the past year. He has given an undertaking to call personally on all chemists in the town to persuade them to attend Association meetings. For twenty-four years Mr. Haywood has taken a leading part in the affairs of the Chamber as a member of its executive committee.



MR. DAVID MCCALL, B.Sc., Ph.D., Ph.C., F.L.S., who has been appointed assistant resident secretary in Scotland to the Pharmaceutical Society, founded in 1919 the School of Pharmacy, Dundee Technical College (then known as the pharmacy department) and has been with the school since. A native of Dundee, Dr. McCall graduated at University College, Dundee, and during the 1914-18 war served as a lieutenant in the Black Watch. In 1927 he was awarded his Ph.D., St. Andrews University, for a thesis "Diatoms of the Tay District." Dr. McCall has taken an active part in the formation of the Pharmaceutical Society's educational policy; he was an external examiner in pharmaceuticals, London University, 1938-44; and has been a member of the Scottish Board of Examiners of the Society since 1938.

BIRTH

CARTER.—On February 15, Dorothy (née Crossley), the wife of Dr. Kenneth Carter, M.P.S., Blue Peter, Park Avenue, Ruislip, Middlesex, of a son.

MARRIAGE

Golden Wedding.—**TURNER—WILSON.**—At London Road Wesleyan Church, Derby, on March 10, 1897, Calvert Daykin Turner, M.P.S., to S. Wilson. Present address, 30 Cavendish Avenue, Allestree, Derby.

DEATHS

ALLAN.—Recently, Mr. John Allan, M.P.S., 342 Lancaster Road, Torrisholme, Morecambe, Lancs, aged fifty-nine. Mr. Allan had been in business at Torrisholme for twelve years and was previously in business for twenty years at Abbey Hills Road, Glodwick, Oldham. He was president of the Lancaster and Morecambe Branch of the Pharmaceutical Society, a member of Morecambe and Heysham Chamber of Trade, a former president of Oldham Chamber of Trade, and a prominent Freemason. He is survived by his widow and two sons.

ARNOTT.—On February 3, Mr. Daniel Arnott, Ph.C., Brynffrwd, Coychurch, Glam, aged eighty-seven. Mr. Arnott qualified as a chemist and druggist in 1883, and passed the Ph.C. examination the following year. After experience in London and on the south coast, he opened a pharmacy in Pontypridd in 1887. For many years he served as a member of the local urban district council, of which he became chairman, and was a member of the county Insurance and Pharmaceutical Committees from their inception. He retired from public life in June 1938 owing to ill-health.

BRIGHT.—On March 1, Mr. William Bright, M.P.S., 47 Nantwich Road, Crewe, aged fifty-one.

BROOKER.—On February 19, Mr. John Knell Brooker, M.P.S., 20 Southdown Road, Bognor Regis, Sussex, aged thirty-six.

CATTELL.—On February 24, Mr. Charles Cattell, Sheldon, Old Road, Harlow, Epping, aged eighty-eight. Mr. Cattell qualified as a chemist and druggist in 1891.

CHALMERS.—The funeral of Mr. William Chalmers, M.P.S. (see *C. & D.*, March 15, p. 274) was attended by a number of business associates and friends including Messrs. O. N. Chadwyck-Healey and P.

Vaughan-Morgan (directors of Morgan Brothers (Publishers), Ltd., Charles J. O. F. C. Bromfield (Editor of *C. & D.*), J. R. Goldthorpe (Publisher), and other members of the staff, and the following representatives of pharmacy: Messrs. Peter Irvine, C. Noble, F. W. Adams, B. (representing the Pharmaceutical Society, Great Britain) and L. Higgs (representing the Thames Valley and District Branch of the Pharmaceutical Society). Mr. J. May Crewe, writes: "I worked with Mr. Chalmers sixty years ago in Elgin, and was the sort one took to at once. He had what most Scots are very short of: an even temper and patience to listen to the other fellow. It took me forty years to acquire a little of this, but Chalmers, like other noted pharmacists, including the late William S. Glyn-Jones, had it in abundance. He found his right job in life in the *C. & D.* office along with the late Mr. Peter McEwan."

DAVIES.—On February 15, Mr. Arch Davies, M.P.S., 537 Wellingborough Road, Northampton. Mr. Davies, who qualified in 1921, was formerly on the staff of the Shell Petroleum Co., Ltd., Teddington, Middlesex, and more recently with Boots Ltd.

ELLIS.—On February 24, Mrs. Evelyn Ellis (née Spencer) M.P.S., 180 Moss Lane East, Moss Side, Manchester. Mrs. Ellis qualified in 1925.

FAWCETT.—On February 23, Mr. John William Fawcett, M.P.S., The Pharmacy, High Street, Newmarket. Mr. Fawcett qualified in 1905.

HOGG.—At Bangor, co. Down, on March 7, Mr. James Alexander Hogg, B.A., second and sole surviving son of Mr. James Hogg, founder of James Hogg, Sons, & Co., Ltd., the Eagle Pharmacy, York Street, Belfast. After a brilliant academic career in London and at the Royal University of Ireland, which he graduated in 1895, Mr. Hogg managed his father's business for a time before entering the wholesale trade as becoming one of the best-known representatives in Ireland. Among other well-known wholesalers, he represented Thomas Kerfoot & Co., Ltd., Bardsley Vale, Lancs.

HUNTER.—On March 15, Mr. Matthew V. Hunter, Ph.C., Ph.D., managing director of Raimes, Clark & Co., Ltd., 17 Smith Place, Edinburgh, 6, aged forty-six. Mr. Hunter qualified in 1922, and passed the Pharmaceutical Chemist examination in 1923, and later received the degree

D. from the University of Edinburgh. He was appointed laboratory manager in 1944, and managing director of the company in October 1945. Dr. Hunter was appointed an examiner on the Scottish board of examiners of the Pharmaceutical Society, and secretary of the Scottish Wholesale Druggists' Association.

JENKINS.—On February 15, Mr. Henry Atkins Jenkins, M.P.S., 94 Llewellyn Street, Pentre, Rhondda, Glam., aged sixty-two. A native of Brecon, Mr. Jenkins served his apprenticeship with Mr. Blake Benjamin, Penarth. He removed to Rhondda forty years ago to open a business. He is survived by his widow and one son, who will together continue the business.

MAYNE.—Suddenly, at his residence, 15 Llyn, Bishopstown Park, Cork, Eire, on February 11, Mr. Arthur Mayne, M.P.S.I. Mr. Mayne was registered with the Pharmaceutical Society of Ireland on October 1901.

MILNE.—On March 8, Mr. James Milne, aged eighty-seven. A native of New Glasgow, Mr. Milne qualified as a chemist and druggist in 1881. He established himself in Midmar, Aberdeens, and remained there for about thirty years. In 1909 he moved to Dundee the aerated-water manufacturing business of J. Milne & Sons, 151, Oldside Road, retiring in 1909. He was elected to Dundee parish council in 1922, and became chairman of the District Board of Control. In 1930, when Poor Law responsibility was transferred to the Town Council, Mr. Milne served on the Public Assistance Committee for the transition period. He was an elder of Downfield Church. Later, on removing to Burnhill, he became secretary of Broughty Ferry Congregational Church. He was one of the originators of Dundee Aberdeen, Perth, and Kincardine Association, and was president for several years. He is survived by two sons and a daughter.

NEWCOMBE.—On February 28, Mr. Thomas Newcombe, M.P.S., 119 County Road, Ormskirk, aged seventy-two.

REESON.—On October 20, 1946, Mr. Herbert Stanley Reeson, M.P.S., 11 Stillness Road, Honor Oak Park, London, S.E.23. Mr. Reeson qualified in 1903.

ROBSON.—At 8 Craigs Avenue, Corstorphine, Edinburgh, 12, on February 5, Mrs. Nancy Robson, the wife of Mr. Harry D. Robson, M.P.S.

ROUSHDY.—Recently, Mr. Mahmoud Mohamed Roushdy, M.P.S., College of

Medicine, Cairo, Egypt. Mr. Roushdy qualified in 1920.

SALMON.—At his residence, 2 Trafalgar Terrace, Redcar, on March 7, Mr. Thomas William Salmon, M.P.S., aged seventy-six. Mr. Salmon was the oldest chemist in business in Stockton-on-Tees and came of an already established pharmaceutical family, since he was born above the chemist's shop established in the High Street by his father (Mr. William Salmon). At that period Stockton was mainly an agricultural town, and a lively veterinary business was done, but later Mr. T. W. Salmon (himself an early motorist) became the first person to bring petrol to the area. In those days the railways would not accept such inflammable material, and he imported it by sea in 40-gall. steel drums, retailing it in 2-gall cans. He purchased the business of Brayshay & Downs (established 1840) and founded T. W. Salmon & Son, Ltd., which now, with associated concerns, has shops in Stockton-on-Tees, Norton and Middlesbrough. Mr. Salmon celebrated his golden wedding in 1945 and lost his wife so recently as December 1946. Of their three children, one (Mr. William Salmon, M.P.S.) is managing director of the company. The elder daughter is Mrs. Madge Black, M.P.S., and the younger, Mrs. Joan Mothersdale, holds an Apothecaries' Hall qualification and is married to a pharmacist.

SHIRTLIFF.—At 64 Bruce Grove, Tottenham, London, N.17, Mrs. Georgina S. Shirtiliff, widow of the late Mr. E. D. Shirtiliff, M.P.S., Shepherd's Bush and Enfield.

STEWART.—At Myrtle Bank, South Queensferry, on February 13, Mr. Fergus Ferguson Stewart, formerly of Lasswade, Midlothian, and Lynnville, Keir Street, Dunblane, aged eighty-two. Mr. Stewart qualified as a chemist and druggist in 1887.

TURTON.—In Nottingham General Hospital, recently, as a result of a street accident, Mr. Edwin Evelyn Harrison Turton, M.P.S., 25 Derby Grove, Nottingham, aged seventy-six.

WATTS.—On February 26, Mr. Herbert Watts, M.P.S., 1 Stanley Grove, Sale, Cheshire, aged seventy-three.

WICKHAM-JONES.—On February 2, Mrs. Eileen Florence Wickham-Jones, M.P.S., 15 Howard Street, Coulsdon, Surrey. Mrs. Wickham-Jones qualified in 1937.

WINTERBOTTOM.—On February 6, Mr. Arthur Winterbottom, M.P.S., 219A Preston Road, Brighton, 6, aged seventy-six.

TRADE NOTES

Agents for Distribution.—Butylash eye shadow, in five shades, manufactured by Lyons & Neil, is obtainable through the distributors, S. Maw, Son & Sons, Ltd., Aldersgate Works, New Barnet, Herts.

Easter Perfumery.—Perfumes in $\frac{1}{4}$ -oz., $\frac{1}{2}$ -oz., and 1-oz. sizes, suitable for the Easter trade, are offered to pharmacist retailers by Sir John Pratt & Co., 89 Forset Court, Edgware Road, London, W.1.

Purse-size Make-up.—Max Factor Hollywood & London (Sales), Ltd., London, have introduced a new purse-size Pan-cake make-up in nine shades at a popular price. Reference should be made to the company's announcement elsewhere in this issue.

In Easier Supply.—British Felsol Co., Ltd., 206 St. John Street, Clerkenwell, London, E.C.1, state that, as a result of progressive increases in production, they are now able to meet all demands for Felsol asthma powders. The large-sized packing has been reintroduced.

Special Moth Spray.—A new moth spray containing both Gammexane and DDT has been issued under the name Flyolin by Fubex, Ltd., London, W.1. The preparation, which is issued in screw-capped glass bottles, is non-staining and remains effective over a long period.

Asthma Tablets.—Medical Specifics, Ltd., West India House, Maryland Street, Liverpool, 1, are now introducing to the medical profession their speciality Respaton tablets for asthma. The formula, packs and prices are given on another page of this issue.

Now in Collapsible Tubes.—J. R. Harker, Stagg & Morgan, Ltd., Emmott Street, London, E.1, are now issuing in attractively printed collapsible tubes their chilblain paste and zinc and castor oil cream, sizes and prices of which are listed in the company's announcement.

Packs in Three Colours.—D. & W. Gibbs, Ltd., 1 Kingscote Street, London, E.C.4, have solved the problem, encountered in many families, of distinguishing the dentifrice containers of various members of a family by issuing Gibbs' solid dentifrice in red, green and blue cases.

Inexpensive Fly Killer.—Leda Chemicals, Ltd., London, N.19, have introduced Peter Panda fly killer, a fly paper containing DDT, for sale at a low price. New items issued by the company and parti-

culars of the company's sole agents in Scotland and Northern Ireland are given on another page.

Price Correction.—W. J. Rendell, Ltd., 161 Roseberry Avenue, London, E.C. state that prices given in the company's announcement in THE CHEMIST AND DRUGGIST, March 15, were obsolete. The corrected prices are as listed in an announcement which appeared in the issue of February 15.

Aluminium Hydroxide.—On another page, Evans Medical Supplies, Ltd., Speldi Liverpool, 19, announce the issue of their new Collumina brand of aluminium hydroxide preparations, in addition to their suspension, powder and tablets already available. Literature to be available shortly will be sent to any pharmacist on application to the company.

New Cosmetic Specialities.—The makers of Tangee products have issued through the sole U.K. distributors (J. Gambles & Co., Ltd., 209 Blackfriars Road, London, S.E.1) four new shades of Tangee lipsticks in restyled containers and a "petal finish" cake make-up, also in four shades. Full details of the new shades are given on another page.

Competition for Children.—A new Enolin tooth-paste and dentifrice drawing and painting competition for children, which the prizes total £200, with £80 additional cash prizes for retailers, is announced in this issue. The manufacturers are Enolin (1926), Ltd., 168 Warbre Moor, Liverpool, 9.

Temporary Shortage.—Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London W.C.2, state that, whilst other products of the company are free available, Ambinon A and B are temporarily in short supply. Pharmacists who have supplies to spare will help doctors and patients in other areas if they will kindly return them for credit.

Proprietary Articles Trade Association

ALTERATIONS TO PROTECTED LIST.—Allen & Hurbys, Ltd., Increased prices, March 17: Half orange 5-oz., 3s. 2d., 29s. 1d. doz.; 40-oz., 20s. 9d. 190s. 10d. doz. (exempt from tax). Lixen lozengs 30's, 15s. doz., tax 2s. 6d. doz., inclusive retail price 15. 11½d.; pastilles, 30's, 12s. 4d. doz., tax 2s. 6½d. i.r.p. 15. 7½d.

Macleans, Ltd., Increased prices, March 10: Macleans peroxide tooth-paste, 9s. 5d. doz., tax 3s. 1½d. doz., i.r.p. 15. 4d.

N.P.U. EXECUTIVE ELECTION

STATEMENTS by three candidates in the National Pharmaceutical Union Executive Election, in which there are three contests, are given in the *C. & D.*, March 15, p. 3. Notes are given below on the three other candidates:—

HOBSON, Cyril Watson (NORTH-EASTERN DIVISION 3).—Qualified in 1913 and early London west-end experience before entering H.M. Forces in 1914 for five years. In business on his own account in Sheffield for twenty-eight years. Served on the N.P.U. Executive for six years, and was selected by his colleagues in the final year for the office of chairman for the ensuing year. Has had extensive experience of all local and many national committees and conversant with National Health Insurance matters and all branches of retail pharmacy. Mr. Hobson writes: "I am a strong C.F. supporter, being one of the originators of the scheme. I feel that N.P.U. matters are almost a full-time job, and respectfully submit it is not in the least the interests of either the Society or the P.U. to serve on both bodies."

HUDSON, Donald William (SOUTHERN 2).—Actively engaged in retail pharmacy since 1912. Managing director, Parris & Greening, Ltd., Hove, since 1928. On the board of Dubarry Perfumery Co., Ltd., and Standard Tablet Co., and a director of all subsidiary companies of the group since their incorporation. On the board of a number of other companies and hospital boards of management. Mr. Hudson writes: "Invited by the South-eastern Federation of Pharmacy Associations, and supported by the Associations in the adjacent districts, I have accepted nomination because I feel that it is the duty of every practising pharmacist to do his utmost at this critical juncture to safeguard the interests of his profession. Between now and the inception of the National Health Service in April 1948, many matters relating to the practice of pharmacy must arise for consideration. It is my opinion that a properly co-ordinated service can be developed from the existing organisation, provided pharmacists are given the necessary guidance at the earliest opportunity."

REES, William Talvan (SOUTHERN 2).—One of a family of pharmacists. Served apprenticeship in business of J. & D. G. Rees, Swansea. Proprietor of old-established business of William Hands & Co.,

Cheltenham, since 1938. Mr. Rees writes: "I offer myself for election because I believe that territorial representation can only be really effective if each area is represented by a member who is actively engaged in retail business within the area he represents. The future, I believe, holds great possibilities for pharmacy, depending mainly on unity amongst proprietor pharmacists. Given unity, it will be possible to provide a first-class pharmaceutical service for the public and command adequate benefit to the pharmacist."

COMING EVENTS

Monday, March 24

BIRKENHEAD and WIRRAL PHARMACISTS' ASSOCIATION, Methodist Schoolroom, Grange Road, Birkenhead, at 7.45 p.m. Showing of Wellcome Physiological Research Laboratories film, "The preparation of Diphtheria Antitoxin and Prophylactics."

Tuesday, March 25

NOTTINGHAM BRANCHES, PHARMACEUTICAL SOCIETY, and NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Medico-surgical Society, 64 St. James's Street, Old Market Square, Nottingham, at 7 p.m. Mr. C. H. Edlin, B.Sc., F.Inst.P. (Home Office Forensic Laboratories), on "Some Applications of Physics in Criminal Investigation" (illustrated).

MIDLAND REGION, FEDERATION OF BRITISH INDUSTRIES, Queen's Hotel, Birmingham, at 10 a.m. Conference on "Industry and Research." Full particulars from F.B.I., 5 Bennett's Hill, Birmingham, 2.

MEETING CANCELLED: The meeting arranged by Durham Branch, Pharmaceutical Society, has been cancelled owing to travel difficulties.

Wednesday, March 26

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Metallurgical Club, Sheffield, at 7.45 p.m. Dr. Thompson (Boots, Ltd.) on "Streptomycin" (illustrated).

WALTHAMSTOW BRANCH, NATIONAL PHARMACEUTICAL UNION, Conway Hall, High Street, Walthamstow, E.17 (Hoe Street end, opposite public baths and library), at 8 p.m. Mr. H. Steinman, M.P.S. (chairman, N.P.U.), on "The Health Service and You."

Thursday, March 27

MANCHESTER PHARMACEUTICAL ASSOCIATION, JUNIOR BRANCH, and MANCHESTER BRANCH, PHARMACEUTICAL SOCIETY, Council Chambers, Houldsworth Hall, at 7.45 p.m. Mr. H. Heap, F.R.I.C. (Manchester Public Health Department), on "Food and Drug Analysis."

IPSWICH BRANCH, PHARMACEUTICAL SOCIETY, Crown and Anchor Hotel, Ipswich, at 7 p.m. Mr. J. T. Marsh, M.P.S. (Glaxo Laboratories, Ltd.), on "Penicillin: Recent Developments."

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, Hotel Metropole, Leeds, at 7.30 p.m. Mr. Charles Beaven, Ph.C., on "The Riddle of Allergy" (illustrated).

MEDWAY and MAIDSTONE BRANCH, NATIONAL PHARMACEUTICAL UNION, Sun Hotel, Chatham, at 7.30 p.m. Mr. G. H. M. Graham on "Two Days at Queen's Square."

GLUCONIC AND LACTIC ACIDS FROM GLUCOSE

Notes on their production by a modern fermentation technique

WITHIN the past few years improvements have been made in the methods of producing gluconic and lactic acids from glucose by fermentation, resulting in larger yields and a higher degree of purity, with considerable reduction in the time required. Gluconic acid, $\text{CH}_2(\text{OH}) \cdot [\text{CH}(\text{OH})]_4 \cdot \text{COOH}$, is produced now by fermentation with the fungus *Aspergillus niger* which, under controlled conditions, produces up to 95 per cent. of the theoretical amount from glucose. Lactic acid results from fermenting glucose with the organism—*Lactobacillus delbrückii*—and the process can be completed generally within forty-eight hours, against a week or more required by previous methods.

When glucose is subjected to the action of *Aspergillus niger* the sugar is oxidised to gluconic acid as indicated in the equation $\text{C}_6\text{H}_{12}\text{O}_6 + \text{O} = \text{C}_6\text{H}_{12}\text{O}_7$. To obtain maximum yields the strength of glucose solution is generally between 12 and 14 per cent. Since high concentrations of gluconic acid inhibit the fermentation, it is necessary to neutralise the acid as formed, and this is done with precipitated chalk.

Fermentation Plant

The plant employed consists essentially of two vessels, a mixer for preparing the batch, normally a vertical cylinder provided with a stirrer, and an aluminium coil connected to steam and to a cold-water supply. The mixer is charged through a hinged door which is afterwards tightly clamped down. A vacuum pump connected to an air filter enables a current of clean air to be drawn through the batch, thus assisting in eliminating volatile impurities during sterilisation.

The fermentation vessel is generally a steel cylinder mounted on a horizontal axis and capable of being rotated, the speed of rotation of the vessel being about 9 to 12 revolutions per minute. The temperature inside the vessel is accurately controlled by a series of pipes fixed lengthwise, and connected to steam and cold water. To enable aeration of the batch during fermentation, a perforated air-line is provided inside the vessel. The fermenter is positioned directly underneath the batch-mixing vessel, so that transfer of batches from one vessel to another can be done by gravity through a short length of line, thus helping to ensure sterility.

On a semi-commercial scale about 150 lb. of pure glucose is placed in the mixer,

150 gall. of hot water added, and the glucose dissolved by heating in the steam coil and stirring. Nutrient salts (3 to 4 per cent.) including ammonium nitrate, and boron compounds are next added, and then sufficient powdered chalk to leave finally a slight excess of gluconic acid. The contents of the mixer are raised to boiling point quickly with the heating coil, filtered air is bubbled in and at the same time, the pressure is reduced. Sterilisation takes from thirty to sixty minutes. The mass may be cooled by passing cold water through the coil and, when the temperature has dropped to about 35° C., the vacuum is released. During cooling, the pressure is reduced to about 27 or 28 in. of mercury, and the bulk of the volatile impurities is expelled. The batch is then ready for release through the base of the mixer into the fermenter below.

By circulating cold water in the fermenter pipe system, the temperature of the batch is brought to about 30° C., the vessel being kept in rotation. Normally one batch is fermented by the mycelium from the previous batch; but, when this is not available, as in the first batch of a series, it is necessary to add from 4 to 6 per cent. of the fungus *A. niger*, calculated on the sugar content. Air at a pressure of about 30 lb. per sq. in., is passed through the perforated pipe in the fermenter. Fermentation generally takes from eight to ten hours, and it is not usual to carry on the fermentation after the sugar content has been reduced to about 1 per cent. As fermentation nears completion, the mycelium produced during the fermentation readily separates out. The clear solution underneath, containing calcium gluconate and gluconic acid, is run off, leaving the mycelium in the fermenter to form the fermenting medium for the incoming batch. The dilute solution from the fermenter is concentrated by evaporation to the required strength.

Production of Lactic Acid

For the production of lactic acid by glucose fermentation the same plant is used. The process is similar, too, up to the fermenting stage, but there the pH of the material is adjusted to 4.6 to 4.8, and an "accelerator" (obtained from germinating barley) is added. This material reduces fermentation time from about nine days to forty-eight hours. *Lactobacillus delbrückii* is the fermenting organism used.

RADIOACTIVE ISOTOPES IN MEDICINE IN U.S.

By an American Medical Correspondent

A PLENTIFUL supply of the radioactive by-products of the uranium chain reaction pile for present needs is assured, according to the research division of the United States Atomic Energy Commission, following the development of approved techniques. More than 100 laboratories throughout the U.S.A. are now using radio-isotopes in medical, biological, industrial, agricultural and other fields of research, and radioactive material is undergoing mass production at the Clinton Laboratories, Oak Ridge, Tennessee, operated for the U.S. Army by the Monsanto Chemical Co. (Pictures, pp. 312-13.)

Radioactive Iodine

Radioactive iodine, which is colourless and odourless, was prepared for Earle for the treatment of hyperthyroidism in the Massachusetts Institute of Technology cyclotron by the nuclear bombardment of metallic tellurium, using 14 m.e.v. (million electron volts) deuterons. The bombardment transmutates tellurium into radioactive iodine, and this is then separated from the tellurium target, as described by Chapman and Evans, by adding to the metallic tellurium 0.5 gm. I_2 as sodium iodide and 25 mils of normal sulphuric acid. Concentrated nitric acid is cautiously added while the solution is heated, thus dissolving the target. The iodine distills over and is collected in carbon tetrachloride. The carbon tetrachloride solution is washed once with water, and the iodine is reduced with sodium bisulphite and extracted as sodium iodide. The final solution presented to the patient contains 14 to 79 millicuries of twelve-hour iodine and about one-tenth that amount of eight-day iodine in 0.5 mgm. of iodine as sodium iodide, dissolved in distilled water. A millicurie of emanation is equivalent to 7,000,000 atoms disintegrating per second.]

Iodine Isotopes Mass-produced

Radioactive iodine is produced in enormous quantities in nuclear chain-reaction piles. When radio-iodine from such sources is made readily available, state Hertz and Roberts, this form of treatment may prove itself not only effective, safe and non-injurious, but also cheap and of minimum inconvenience to the patient, who may receive it while continuing at his normal pursuits. Recently a revision in the radio-

isotope prices schedule has been announced. The price of the radioactive isotope carbon 14 has been reduced to \$50 per millicurie, plus \$25 for handling, against the previous price of \$367, plus \$25 for handling. Carbon 14 is being used in investigations of photosynthesis, cancer, diabetes, proteins, metabolism, vitamins, bacteria, amino-acids, blood plasma and in certain sections of industrial research.

Radioactive Iron

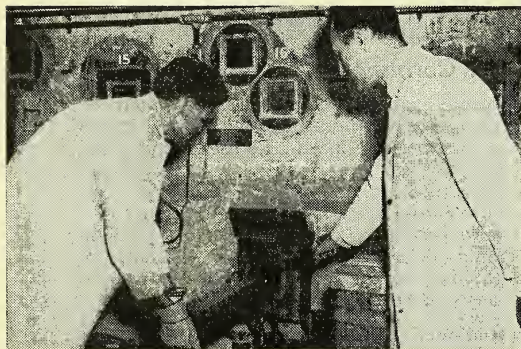
The original studies of Hahn, Bale and Whipple in animals, and of Ross and Chapin in human subjects, employed a mixture of radioactive isotopes of iron, prepared by bombardment in the cyclotron of iron phosphide. Later, Evans and others, at the Radioactivity Centre of the M.I.T., developed methods for preparing two separate isotopes by bombardment of manganese and cobalt, the half-life of one of these isotopes being five years, and that of the other forty-seven days. S. H. Armstrong reports that with each isotope there have been developed three products safe for human injection: 1, Radioactive iron in the form of ferric ammonium citrate; 2, radioactive hæmoglobin derived from the cells of patients who have received radioactive iron; and 3, their red cells containing radioactive hæmoglobin.

Manganese Isotopes

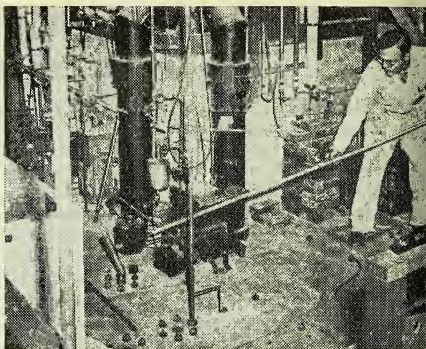
When using colloidal manganese dioxide containing radioactive manganese. C. W. Sheppard and P. F. Hahn found that about 5 per cent. of the initial dose is excreted through the bile immediately after administration. The body then retains the remainder, losing it at a low rate. The gamma-ray intensity at the body surface is found to be greatest near the region of the liver.

Phosphates

Radioactive phosphorus, a source of beta radiation (half-life 14.3 days), is effective in the treatment of polycythæmia vera, when given intravenously or orally as sodium acid phosphates, in doses of 5 to 10 millicuries. Sturgis, Ann Arbor, Mich., states that in treating leukaemia he gives six millicuries of radioactive phosphorus orally once weekly for three of four doses until the white blood-cell count is about 40,000. Usually two to four doses are necessary.



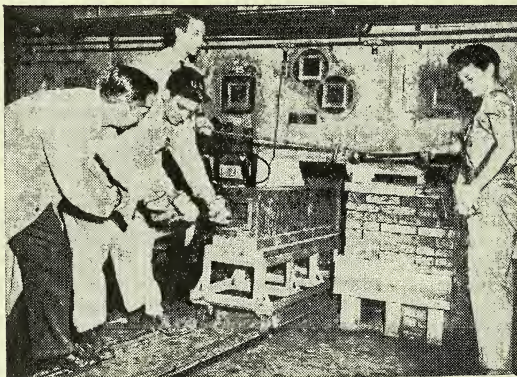
Start of neutron bombardment for producing radioactive isotopes. Containers filled with material to be bombarded are fitted into a graphite carrier block, which is then pushed into the centre of the pile.



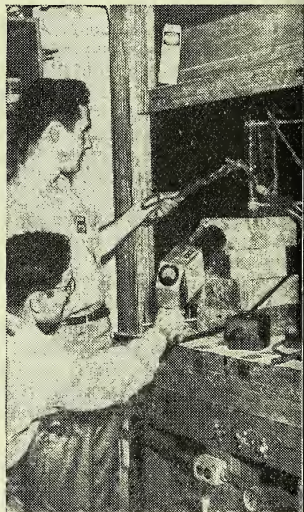
Working rapidly, and using long-handled tongs, technician introduces active material through roof of an insulated "hot" cubicle. Chemical processes are controlled safely from outside the cubicle.

Nuclear Energy for

STAGES IN THE PRODUCTION AND

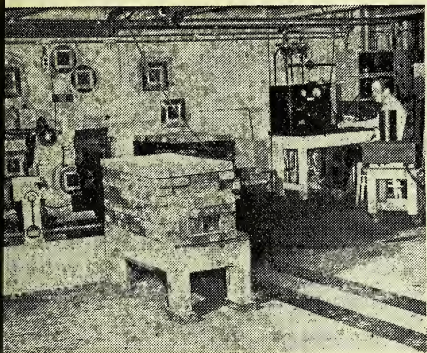


A worker using a long holder removes a bombardment sample from the carrier block after withdrawal from the pile. A woman worker checks its radioactivity, as a safety measure.

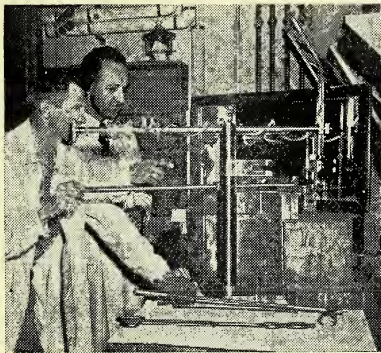


A stage in the extraction of radioactive iodine. A worker pours bombardment (radioactive) tellurium from a container while another checks the radiation. Lead bricks and a lead-covered blanket insulate the apparatus.

The illustrations are from photographs taken at the Clinton Laboratories, Oak Ridge, Tennessee (operated for the U.S. Army by the Monsanto Chemical Co.), the University of Illinois, and the University of Chicago.



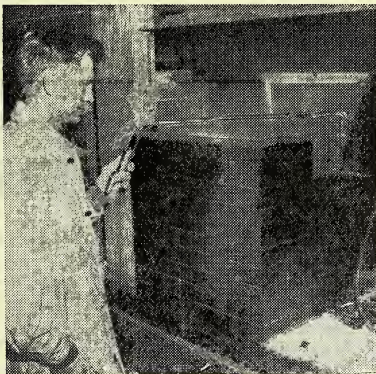
Experiment is conducted on a beam of radiation passing through a hole in the pile's shield. A "house" of lead bricks (in foreground) holds up beam after it passes the experimental device.



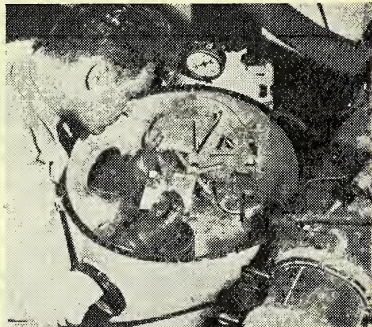
One of the remote control operations. Using periscopes, workers follow the course of reactions taking place within a heavy concrete cubicle.

Medicine and Research

APPLICATION OF RADIOACTIVE ISOTOPES



Evaporating a purified sample to dryness. For "semi-hot" substances the process may be carried out safely behind a wall of lead bricks, provided well shielded and well ventilated hoods are worn.



A circular protective screen is used in another stage of the isotope purification process at the University of Chicago.

in tube ("doughnut") 22-million volt betatron operated at the University of Chicago. A "peeler" deflects ions accelerated in the tube and projects them in a free beam.



Before leaving the laboratories at the University of Chicago, the workers, using the apparatus shown, test their hands for contamination with radioactive particles.



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OL. CXLVII MARCH 22, 1947 NO. 3500

Three Years Without the Option?

THE Interim Report on Pharmaceutical Education and Examinations prepared by the Education Committee of the Pharmaceutical Society (*C. & D.*, March 8, p. 254) has been issued for members to admire. They may read it, mount it in a gold frame, or put it to some use, such as making spills—anything, in fact, so long as they do not presume to pick holes in it or even talk about it. That, at any rate, appears to be the view of the chairman of the Education Committee. "I do not think," said Mr. Maplethorpe at the March Council meeting (*C. & D.*, March 15, p. 284) "that educational policy is suitable for discussion at Branch Representatives' meetings, since decisions on that subject are the Council's responsibility." Yet it was Mr. Maplethorpe himself who moved publication of the report. He must have had a motive. What was it?

For answer we may turn to the report of the February meeting of the Council, at which a certain amount of bickering took place (without any decision being reached) on whether the Council was "committed" to the Education Committee's report. "If I can only get the Council to take responsibility for publication," Mr. Maplethorpe seems to have said to himself, "then the proposals are as good as passed." But Mr. Maplethorpe cannot have it both ways. Either education is the responsibility of the Council as a whole, in which case the proposals must be fully thrashed out in dis-

cussions, or it is not, in which case Mr. Maplethorpe must be prepared to meet from outside some of the criticism which he seems so nervously anxious to avoid.

The Committee's chairman is under the conviction that the proposals have already been sufficiently discussed. He stated recently that "seven years have elapsed since the proposal was first made," and that "it could not therefore be said that the matter was being rushed." More recently he claimed that the scheme had been discussed "for several months." Members of the Society must suppose that all the discussion took place in secret session, since the first official intimation that new educational proposals were being put forward was given by Mr. A. A. Meldrum at the January Council meeting, when he referred to "impending changes in the educational set-up." One member of the Council (Mr. H. M. Hirst) has gone so far as to declare (p. 317) that the first printed copies of the Interim Report were handed out to Council members at the same Council meeting at which it was decided to release the Report to the Press, and after it had been submitted to the teachers of pharmacy and to the North British Branch. "Mr. Maplethorpe was winding up the debate," states Mr. Hirst "and so no other Councillor could continue the argument." What sort of procedure is it that submits important documents to outside interests before they reach the Council? And what sort of Council is it that submits to such treatment?

It is true that Mr. Maplethorpe is not alone in wishing to flout possible opposition. The vice-president, in one of the most uncalled-for reflections, surely, that has ever been made by a high officer of the Society, stated recently: "We should not think so much about the people who sit at this table as about the students" and that "the people who sent us to this table are thinking of their businesses; they are thinking of the people to help them in their business." Mrs. Irvine is possibly not under the same necessity to think of the people who sent her to the Council table as are those of her colleagues who are due to face the electorate this year. Nevertheless, in claiming to speak for the students, Mrs. Irvine is under some obligation to disclose

what future she has in mind for them when they have completed their three-year course. Is she content that they should rise to higher things than the practice of pharmacy, kicking away the ladder by which they climbed? Too many of the best students have tended to do this in recent years, and pharmacists in business have every right to ask why they should support educational schemes that have such effects.

However, it is not with the details of the proposals that we are at present concerned, but with the questions (a) where lies the responsibility for implementing and (b) whether that responsibility is to be shouldered or shelved. We agree that, under the Society's by-laws, the Council is empowered to make the necessary regulations. Moreover members of the Society's Council cannot devolve their responsibility upon the Education Committee any more than Mr. Maplethorpe can convince them, or the Society's membership, that the scheme is already accepted. The fullest discussion must first take place within the Council Chamber—and in open session. Even that, however, is not enough, since the Council's responsibility in all matters is subject to the Charter provision: "General meetings and the Council shall have the entire direction and management of the Society." That presupposes the consent of the pharmaceutical electorate. In present-day circumstances, that in turn involves, in our view, discussion at the Branch Representatives' meeting next September.

No Forty-mile Transport Limit

IN the House of Commons on March 13, the Minister of Transport (Mr. Alfred Barnes) announced to the Standing Committee considering the Transport Bill that having "become aware of increasing anxiety in that section of industry" [wholesale trade] and "after considering difficulties of trade generally in the immediate post-war period" the Government had decided not to proceed, for the time being, with the clauses dealing with "C" licences. This Government amendment cancels the provisions in the Bill to prohibit, except under licence, private traders from delivering their goods in their own vehicles beyond a radius of forty miles. Manufacturers and wholesalers

in the drug trade are therefore free to continue their customary practice of delivering their goods in their own vehicles without restriction as to distance.

Rather more than twelve months ago the Wholesale Drug Trade Association submitted a memorandum to the Ministry of Transport in which was outlined the case for an exemption in favour of the carriage of medical and pharmaceutical supplies without restriction in traders' own vehicles. This memorandum was not made public and the support of the trade Press was not sought. Twelve months later, when a deputation from the Association was received by the Ministry, the trade representatives were advised that it was unlikely their application for exemption would be conceded. By this time the Bill had reached the Committee stage in Parliament. The W.D.T.A. then called a Press conference at which a strong appeal was made for support. This has been freely and rightly given by all sections of the drug trade Press, and we believe the publicity thus obtained and the opinions expressed on the subject were at least contributory factors in inducing the Government to change its mind at almost the last moment.

Further Amendment Requested

The Standing Committee considering the Transport Bill has been asked to consider a further amendment in regard to the transport of medical supplies. It has been pointed out that, while the reasonableness of the Minister of Transport in exempting motor vehicles owned by manufacturers and wholesalers from the nationalisation of transport is appreciated, there remain some 100 vehicles used in precisely the same fashion as those now exempt. They are the motor vehicles hired by manufacturers and distributors for their exclusive use in the delivery of drugs and medicines. Unless they have a permit, Clause 53 at present prohibits the carriage of goods in hired vehicles beyond twenty-five miles of the operating centre. The Standing Committee has therefore been invited to consider an amendment exempting such vehicles carrying supplies necessary to the practice of a pharmacist and for the maintenance of the forthcoming National Health Service.

EDUCATION REPORT CRITICISED

Mr. H. M. Hirst (a Member of Council) Speaks Out at Scarborough

At a recent meeting of the Scarborough Branch of the Pharmaceutical Society, Mr. H. M. Hirst (a member of the Society's Council) "speaking in a personal capacity," voiced strong criticism of the Interim Report on Education published recently by the Education Committee of the Society (see *C. & D.*, March 8, p. 254). After recalling that the report (published 1939) of the Committee of Inquiry, of which he had been a member, had been shelved owing to the war, Mr. Hirst stated that when the new Interim Report had been presented to the Council by the chairman of the Education Committee, Mr. Maplethorpe had made the startling assertion that "the Council having received this Interim Report, having discussed it for several months, and having consulted the heads of other institutions upon it, cannot regard itself as not committed." Mr. Maplethorpe was winding up the debate, he said, and so no other Councillor could continue the argument. At the February Council meeting, members were told that the report had been before the Education Committee, which had decided to ascertain the views of teachers of pharmacy, and also to send the report to the North British Executive for their observations, before letting the full Council see a printed copy. At that meeting, a copy of the Interim Report had been given members with their monthly papers, and Mr. Maplethorpe, on the Wednesday morning, had moved a resolution that it should be released to the Press. "I leave you to judge whether it is correct to say that the Council had discussed it for several months," continued Mr. Hirst.

Dwindling Number of Apprentices

If the subsequent Final Report on Pharmaceutical Education were on the lines already published, Mr. Hirst felt that the days of the independent private retail pharmacist were numbered. The scheme would cut down the number of entrants into pharmacy, for few parents would be able to afford the fees for a three year course. Apprentices to independent retail pharmacists were dwindling every year; where were their successors to be found when elderly private men retired? He was not biased against the combines, but their apprentices did not learn the cost prices of stock, and so felt safer, after qualifying, in remaining with the combines, retaining the advantages of a pension scheme in their

late middle age. As a result the combines and "co-ops" were gradually absorbing private pharmacies.

The average student of to-day, said Mr. Hirst, found it difficult to pass the Chemist and Druggist Qualifying examination. In 1946, of 558 entrants, only 264 had passed, many only after having been referred several times. This was probably because one year's tuition was too short a time in which a student could assimilate the subjects set out in the syllabus, which was overloaded with matter rarely required in a retail pharmacy. The Ph.C. examination was even more heavily loaded with extraneous matter. In 1946 there were 117 entrants but only seventy-two qualified. Thus only brilliant students could satisfy the examiners after two years' tuition. If the craft needed to be saddled with a two years' course, then the second year's tuition should be along divergent paths. Students who intended to take positions in retail pharmacy should be trained in business methods; those who aspired to hospital and laboratory posts should have the advanced scientific training. If alterations were to be made, full notice should be given to prospective entrants, so that their guardians could decide whether the "gamble" was worth while.

Higher School Certificate

He would like to see the Part I of the examination done away with. If pupils remained at school and took the Higher School certificate, that would save much expense for parents, but he was afraid the teachers of pharmacy would bring pressure to bear against the proposal. Mr. Hirst agreed that education for the qualifying examination should be taken at a university college or at a technical school of the same standing and hoped the day would soon come when all members of the Society could describe themselves as pharmaceutical chemists, with a Fellowship for those who specially distinguished themselves in advanced science.

Resolution to Council

A lively discussion followed and it was agreed to forward a resolution to the Council urging that every member of the Society should have an opportunity to express an opinion, preferably through the Branch Representatives' meeting at Torquay in September, before any alteration was made to the examination regulations.

PHARMACEUTICAL SOCIETY OF IRELAND

March Meeting of Council

THE March meeting of the Council of the Pharmaceutical Society of Ireland was held in Dublin on March 11, Mr. J. K. Whelehan (president) in the chair. Also present were Messrs. P. A. Brady, J. Gleeson, P. C. Cahill, F. X. Meagher, C. J. Cremen, T. C. Scott, H. P. Corrigan, G. C. O'Neill, M. Power, M. Costello, F. Loughman, T.D., R. Daly, J. A. O'Rourke, J. P. Kissane, T. B. O'Sullivan, and P. Fullam. Apologies for absence were received from Messrs. P. Brooke-Kelly and N. A. McKane.

A letter from Mr. John J. Gaynor (law adviser), reporting on a prosecution heard at Wicklow District Court, stated that the defendant had pleaded guilty. The Justice had applied the Probation Act on the defendant's undertaking to pay £2 12s. 6d. costs and expenses.

It was reported that the following had been entered on the preliminary register: James Denis Philomena Maher, Jane O'Shea, Lorcan Mary Duke and Mary Ann Doule. The following changes of address were notified: Mr. J. P. Bowden, M.P.S.I., to 11 Upper Malone Road, Belfast; Mr. W. A. Berry, L.P.S.I., to Upway, Durlay Road, Seaton, Devon; Mrs. A. L. Montague, L.P.S.I., to 12 Earlswood Road, Belfast; Mr. James McKenna, R.D., to 2 Dunblane Avenue, Belfast.

Registrar's Resignation

The Council again considered a letter of resignation received from Mr. James J. Kerr (registrar) (see *C. & D.*, March 8, p. 257) and decided to accept Mr. Kerr's resignation as from September 1. Terms of superannuation for Mr. Kerr were agreed upon.

It was agreed to defer to the April Council meeting discussion of a memorandum from the Registered Druggists' Association of Eire, dealing with the implementation of the 1927 agreement in amended form, to afford members an opportunity of studying it.

The reports of the House, Law, and Schools Committees were approved.

When THE REGISTRAR reported on the death of Mr. A. Mayne, M.P.S.I., Cork, Mr. Daly said the late Mr. Mayne, one of the oldest practising chemists in Cork, had been held in the highest respect as a senior member of the profession. He moved that the Council express its deepest sympathy with the bereaved relatives of the late Mr.

Mayne. THE PRESIDENT, seconding the motion, said that the late Mr. Mayne had been a member of the Society for a great number of years; his death had severed a link with some of the oldest pharmacists in the South of Ireland. The motion was passed in silence, all members of the Council standing.

THE REGISTRAR reported on the removal of the following under Section 25:—*Pharmaceutical Chemists*: T. Burke, H. Crail, G. W. Camlin, E. England, W. Esler, M. V. Flynn, W. Fee, C. F. Fairweather, M. J. Hughes, M. H. Jeffares, J. J. Lyons, A. S. Patterson, K. Rigby, and E. M. Wright. *Registered Druggists*: T. R. Cambridge, E. P. Coote, J. Cotton, A. W. Donald, M. Dougherty, W. Elliot, J. Ellis, L. Firth, J. A. Hogg, T. H. Hutchinson, R. McCann, J. McDowell, W. J. McKee, E. L. Martin, H. Millar, S. B. Pattie, J. Reid, F. A. Reilly, J. Sanderson, M. Sanderson, T. C. Sandford, T. M. Shannon, S. Smyth, J. A. K. Thompson, J. Unsworth, and F. C. Williamson.

After discussion, consideration of a motion in the name of MR. F. X. MEAGHER, about the conditions under which a candidate for the licence examination might be referred in pharmacy, was referred to the next meeting of the Council.

Mr. B. P. Hickey, M.P.S.I., Rush, co. Dublin, was elected an examiner to the assistants' examination for the year ending March 1, 1948, and Mr. T. R. Bourke, M.P.S.I., was re-elected examiner to the assistants' examination for the same period.

New Members

The licence certificates of the following were signed and sealed: Thomas M. McGoldrick, Mary W. B. McKernan, Mary O'Donoghue, Thomas G. Fullam, Rose D. Mulligan, Matthew D. Tracey, Catherine E. Madden, William P. Shiel, John Fitzgibbon, and William A. Adams. The following were elected members of the Society: L. D. Byrne, D. M. Feely, and Sister M. Majella McKernan. Nominations for membership of the Society were passed on behalf of Messrs. M. Bermingham, Fermoy, co. Cork, and J. J. Natin, Galway.

MR. KISSANE inquired whether the officers of the Society had seen the new Minister for Health, and whether arrangements had been made to send a deputation to discuss the salaries of compounders. THE

PRESIDENT said the officers had been received by the Minister who had agreed to see a deputation from the compounders but had asked that a memorandum on the matters the compounders wished to discuss should be sent to him first. The officers were relying on Messrs. Kissane and Loughman to supply them with data on the salaries of compounders in dispensaries and public institutions. MR. BRADY suggested that a meeting of the subcommittee dealing with the matter should formulate proposals for the Minister. The suggestion was adopted.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

THE reports of the examiners for the December 1946 Final Qualifying examinations (part II) of the Pharmaceutical Society of Northern Ireland are as follows:—

Pharmacy

In general, the standard of knowledge was very good, especially amongst those taking the examination for the first time. More attention, in some cases, to the principles underlying pharmaceutical practice would have gained more marks. Prescription reading was of a high standard. In practical pharmacy it would be well to insist upon measuring cylinders being used, in place of conical measures, when measuring mils. A few sets of apothecary and of metric weights should be provided, since candidates coming from technical colleges outside Belfast often arrive without weights, and are thus handicapped in dispensing. Failures in practical pharmacy were mainly due to carelessness in calculating quantities. (Examiner, Mr. G. Perrins.)

Pharmacognosy

The pharmacognosy questions were well answered, though there was one question on characteristics of alkaloids and glycosides which no candidate attempted to answer. The practical work was also well done, except that a mixture of drugs again gave trouble to some candidates. Candidates who did not show sufficient knowledge, and to whom dispensing of medicines for the public could not be safely entrusted, account for failures in this examination. (Examiner, Mr. G. Perrins.)

Chemistry

Theoretical.—The standard on the whole was good, but some general weaknesses

MR. POWER said that he had raised, at the previous Council meeting, the question of holding a pre-registration examination in April, and it had been agreed to refer it to the Schools Committee. A number of students in Limerick were receiving private tuition and did not wish to wait until June, but would prefer an examination in April. MR. KISSANE said he had supported Mr. Power's request, and members had gone away from the February Council meeting expecting that something would be done. MR. CREMEN said he was sure the matter had not been overlooked intentionally.

were apparent. In Section 1, the organic work was reasonably well known, but there was a marked tendency to write inaccurate formulæ, with little regard to the number or position of valency bonds. In this section the best answers were those describing the preparation and purification of ether: in the same question, however, surprisingly few candidates were able to state correctly the forms in which ether is official in the Pharmacopœia, and many of them listed official substances which contain no ether. In section 2, the question on the quantitative test for arsenic was very well done, and there were also some very good answers to the question on impurities. The most disappointing answers were those to the question asking for details of the preparation of any three official calcium compounds, starting from calcium carbonate. The details given were extremely meagre, and comparatively few candidates seemed even to be able to select three calcium compounds correctly: some remarkable substances—calcium oxalate was a common one—were chosen as calcium compounds of the Pharmacopœia.

Practical.—The quantitative work was fairly well done, but many candidates returned results such as 99.9 per cent. for the purity of a sample of sodium potassium tartrate that was actually far below the B.P. standard. Each candidate was given two compounds for qualitative examination, one familiar, the other less common. The first was identified with ease, but little progress was made with the second, although its main characteristics should have been easily discovered. Candidates should be able to refer a simple organic compound to its class, even if they have not met with it before. (Examiner, Dr. J. E. Driver.)

NEW BOOKS

A Textbook of Bacteriology (Fifth edition).—R. W. Fairbrother, M.D., D.Sc., F.R.C.A. 8½ in. x 5½ in. Pp. 480. 17s. 6d. William Heinemann, Medical Books, Ltd., 99 Great Russell Street, London, W.C.1. Designed primarily for medical workers, the book contains much concise information of use to other students, including those of pharmacy. The new edition (the fifth to be published in nine years) has been brought up to date by additions on recent developments in bacteriology, particularly advances in chemotherapeutics, and, to be more in keeping with the scope of the work, the word "medical" has been omitted from the title. The author's aim, that of drawing attention to bacteria as the agents of disease, and to the importance of bacteriological methods in prevention and treatment, has been successfully developed, especially in the chapters on systematic bacteriology and chemotherapy. The book is divided into three parts as follows:—(1) General bacteriology (166 pp.), including chapters on the biology, multiplication and destruction of bacteria, chemotherapy and immunity; (2) systemic bacteriology (279 pp.) including chapters on filterable viruses, rickettsiae, and the bacteriology of water and milk; and (3) general techniques (25 pp.), a section containing formulas for bacteriological stains with methods of use, and a summary of serological technique. The work would be improved by more plates depicting bacteria (there are only six) and it deserves better photographic reproduction of the few examples of apparatus and processes given.

Food and Drugs Administration.—Stewart Swift. 8½ in. by 5 in. Pp. xxxiii + 631 + 72. 40s. Butterworth & Co. (Publishers), Ltd., Bell Yard, London, W.C.2. The author, who is chief sanitary inspector for the City of Oxford, has designed this book primarily for "colleagues in the local government service" and for students preparing for professional examinations. He has accordingly devoted much attention to such matters as condition of premises and procedure for taking samples. The section allotted to pharmacy and poisons (pp. 542-64), though relatively short, serves a useful purpose by distinguishing between the work of inspectors appointed by the Pharmaceutical Society, those appointed by local authorities, and those occupying a dual position. Manufacturers and wholesalers will find digests of the law on pre-

servatives and colouring substances in food, on labelling foods, and on the Fertilisers and Feeding Stuffs Act, 1926, and Regulations made in pursuance of it. Analysts will find several tests under their respective headings. Retailers will be interested in some of the remarks on sampling. From tables on pp. 57-59 it appears that in 1934 one county council (that of Lancashire) favoured the proportion of five samples of drugs per hundred samples of all commodities. This fact should be considered in the light of the author's observation that "the second World War has prevented local authorities from administering the [Food and Drugs] Act to the full extent desired." The quantities recommended for purchase by inspectors include those of several drugs, chemicals and galenicals. We note that spirit of nitrous ether is not among them. These quantities are apparently somewhat arbitrary: of Epsom salts 4 oz. is to be taken, but of Glauber's salt 6 oz. Methods of sealing are described in a Ministry of Health memorandum (36/Foods) revised in 1939. The statement that "various war-time amendments of the B.P. itself have also been issued" might have been more happily worded; with that exception we have found the book a typical compendium, complete with tables of statutes and cases.

A PHARMACIST'S ANTHOLOGY

ASPHALION, one of King Menelaus' busy squires, poured water on their hands, and they fell to again on the good fare that was spread before them. Helen, meanwhile, the child of Zeus, had had a happy thought. Into the bowl in which their wine was mixed, she slipped a drug that had the power of robbing grief and anger of their sting and banishing all painful memories. No one that swallowed this dissolved in wine could shed a single tear that day, even for the death of his mother and father, or if they put his own son to the sword and he were there to see it done. This powerful anodyne was one of many useful drugs which had been given to the daughter of Zeus by an Egyptian lady, Polydamna, the wife of Thon. For the fertile soil of Egypt is most rich in herbs, many of which are wholesome in solution, though many are poisonous. And in medical knowledge the Egyptian leaves the rest of the world behind. He is a true son of Pacon the Healer.

—From Homer's "Odyssey,"
as translated by E. V. Rieu.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

Summary of Registrar's report for 1946

Enforcement of Pharmacy Acts

The number of registered premises visited by the Society's inspectors for routine inspection (12,201) slightly exceeds the number visited in 1938. The Society remains under contract with fourteen local authorities for inspecting the premises of listed sellers of Part II poisons. 1,422 such shops were visited during the year. Regular visitation of drug stores was maintained by three agents (5,151 visits). Of sixty cases in which proceedings were taken ten arose from reports received from the agents. Cases in which it was necessary to institute proceedings increased from forty-one in 1945, and were mainly against pharmacists and corporate bodies, the most common offence being the selling of a Part I poison in the absence of a qualified pharmacist (eighteen instances against eight in 1945). Having regard to the total number of registered premises, the number cannot be said to be high. 155 warning letters were issued in instances where contraventions of a minor character, or in mitigating circumstances, were reported. Two appeals against the decisions of summary Courts were made by defendants prosecuted at the instance of the Society; on both occasions the decisions were upheld. The Society is to appeal against a decision concerning the use of the description "Chemists" on retail premises not under qualified control. The Law Committee had occasion to draw attention to the undue frequency with which irregularities continue to occur in connection with the sale of strychnine. Steps have been taken to bring the legal requirements to the notice of all pharmacists.

Registration

Premises registered at the end of 1946 were more numerous than in the previous year, when the figure was at its lowest since 1934. During the year the Council introduced amendments to the by-laws to permit pharmacists over seventy years of age, not actively practising, to remain on the register on the payment of a reduced fee. The number of superintendents appointed by corporate bodies under Section 9 of the 1933 Act showed a greater increase than usual. Between 1936 and 1940 an average of forty-three new appointments occurred yearly, during 1940-44 the figures were almost static, but during 1945, 117 new companies made appointments and in

1946 the total was increased by a further 180. This increase is to some extent accounted for by the reorganisation of businesses previously carried on by representatives, but is probably also a further indication of increased business activity during the year.

Poisons Rules and List

The Council submitted a memorandum to the Poisons Board and during the year certain amendments to the List and Rules were made, additions to the List including pethidine and zinc phosphide. As a result of the Council's recommendations the form issued to Listed Sellers of Part II poisons has been amended. Steps were taken by the Poisons Board, with the co-operation of the Wholesale Drug Trade Association, to endeavour to secure that Part I poisons are supplied for resale only to retailers entitled to sell them. Consideration continues to be given to certain unsatisfactory conditions in the controlled distribution of sulphonamides.

Pharmacy and Medicines Act, 1941

Scrutiny of newspaper and periodical advertising was maintained, and the consent of the Attorney-General was sought to prosecute in respect of two series of advertisements which referred to diseases mentioned in Section 8 of the Act. Proceedings were also instituted in respect of sales of recommended medicines from market stalls and in respect of non-disclosure of composition. A report on the advertising of proprietary medicines was submitted to the Council during the year. Certain questions on the interpretation of the Act so far as it refers to "a substance recommended as a medicine" and "proprietary designation" were considered in the Chancery Division of the High Court. An appeal has been entered against a part of the judgment as recorded.

Appendix

The following are among the figures given in an appendix to the report:—Apprentices or students on register, 572 (551 in 1945); Pharmaceutical Chemists, 1,776 (1,723); Chemists and Druggists, 23,474 (25,596); temporary registrations (foreign pharmacists) 52 (55); superintendents to bodies corporate, 2,395 (2,215); authorised sellers of poisons, 14,061 (13,649); branch shops, 4,028 (3,735).

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, March 19

BUSINESS in the PHARMACEUTICAL CHEMICALS market has been rather quiet during the past week with a firm tone still in evidence. The only important price change is in IODINE PREPARATIONS, which have been advanced by 1s. 3d. to 1s. 6d. per lb., as a result of an increase in crude iodine of 3s. 6d. per kilo. The controlled price of manufacturing SUGAR has been raised by one penny per lb. It is understood that insufficiency of ACETIC ACID is responsible for the shortage in the supplies of ACETANILIDE.

Crude Drugs

The market has been somewhat quiet and prices have been maintained, with a few exceptions at previously quoted values. A good demand has been received from the Continent for CAPE ALOES and a fair business has been done in this material; the price has risen to 210s. per cwt. BALSAMS have shown some price fluctuations: the easier trend in PERU BALSAM continues but CANADA BALSAM has shown a slight increase during the week. A quantity of PARÁ COPAIBA BALSAM is available at from 8s. per lb. Rather higher prices are being asked in the East for BENZOIN. Chinese CANTHARIDES, now landing, is selling at 17s 6d. per lb.; this is the highest value it has reached for some months. It is reported that another allocation of CASCARA is in course of distribution from Government stocks. CASCARILLA is in good supply but the demand is very weak; prices are unchanged. There is a fair inquiry from foreign buyers for DIGITALIS LANATA. HYDRASTIS is in better demand and a fair business is being transacted at 57s. per lb., c.i.f. MENTHOL is again higher; Brazilian shipment is at 42s. 6d. to 43s. 6d., c.i.f., which would mean a landed value of 50s. per lb. Cochin NUX VOMICA is selling at lower prices. WAXES are a firm market. BEES' WAX is no longer subject to export licensing procedure.

Essential and Expressed Oils

The market for ESSENTIAL OILS has been steady and quiet. CITRONELLA and PALMAROSA shipment values have eased slightly and spot quotations for LEMONGRASS are lower. Production of SANDALWOOD has been temporarily suspended and supplies are difficult to obtain. Sweet ALMOND OIL is in good demand; prices are steady at 8s. to 9s. per lb.

There have been no changes in the prices of AROMATIC CHEMICALS. Demand for these products continues on a high scale, but supplies in many instances are low owing to shortage of raw materials.

U.S. Drug and Chemical Report

New York, March 14

CONSIDERABLY more GLYCERIN was produced in the United States in January than in any month since 1944; output was slightly more than 17,000,000 lb. While the tight conditions of a few months ago have eased, demand still exceeds supply by a wide margin. The price of CAMPHOR, in both tablet and powder forms, was reduced during the week. Powdered material, in 2,000-lb. lots, was quoted at 77 cents per lb. compared with 81 cents previously and tablet material at 94 cents against 90 cents previously.

Whether a long list of CRUDE DRUGS in short supply at the present time is relieved during the new season, will depend upon the extent of domestic collections this year, it is pointed out in trade circles. Former collectors still show reluctance to return to this occupation. Business on the drug markets has continued on a small scale: BELLADONNA and BUCHU are now virtually unobtainable. The price of CARNAUBA WAX was again advanced during the week but the outlook is still confused. A good inquiry for SENEGA from abroad brought about a 15 cents per lb. price increase.

The downward trend of ESSENTIAL OIL prices and the arrival of substantial quantities of materials from abroad was again in evidence last week although buyers generally maintained a conservative policy, limiting their purchases to immediate requirements.

Pharmaceutical Chemicals

ACETANILIDE.—Makers' quotations for 1-cwt. lots, in kegs, are 2s. 5d. per lb. for crystals and 2s. 6d. per lb. for powder.

ADRENALINE.—Quotations for natural are from 5s. 6d. to 6s. per gm., according to quantity; synthetic, from 2s. to 2s. 3d.

AMIDOPYRINE.—Quotations are in the region of 36s. to 37s. 6d. per lb., according to quantity. Supplies are limited.

AMPHETAMINE.—Quotations range from 150s. to 170s. per lb., according to quantity. ANETHOLE.—In fair supply. Makers' price is 35s. per lb.

BARBITONE.—In good demand. 7-lb. lots are quoted at 45s. 6d. per lb. SOLUBLE is available at the same price.

BENZOCAINE.—Current prices are as follows: 28-lb., 40s. 9d. per lb.; 14-lb., 41s. 3d.

BENZOIC ACID.—In poor supply. Current price is 2s. 9d. per lb., for small quantities.

CALAMINE.—B.P.C. quality is quoted at 2s. 2d. per lb. for quantities of 1cwt.

CALCIFEROL.—Quotations are from 11s. to 12s. per gm., according to quantity.

CREOSOTE.—B.P. quality, ex beechwood, is unchanged at 7s. 6d. per lb.

CRESOL, B.P.—Controlled price from distillers is 4s. 6d. per gall., ex sellers' premises.

CARBROMAL.—Importers' prices are from 32s. 6d. to 35s. per lb., as to quantity.

CHLORAL HYDRATE.—Current rates are as follows: 28 lb., 4s. 8d. per lb.; 14 lb., 5s.; 7 lb., 5s. 3d.; less than 7 lb., 5s. 9d. per lb.

CHLOROCRESOL.—Makers' quotations are: 1 cwt., 4s. per lb.; 56 lb., 4s. 3d.; 28 lb., 4s. 6d. per lb.

CHLOROFORM.—Current rates are as follows: 1-cwt. lots in Winchester quarts, 2s. 11d. per lb.; 56-lb., 2s. 11½d.

CINCHONIN.—Quotations are from 37s. 6d. to 40s. per lb., according to quantity.

CODEINE.—Current prices per oz., in the home market, are: ALKALOID, ½ oz., 51s. 9d.; 1 oz., 49s. 3d.; 2 oz., 47s. 9d.; 3 oz., 47s.; 4 oz., 46s. 9d. HYDROCHLORIDE, ½ oz., 46s. 4d.; 1 oz., 44s.; 2 oz., 42s. 6d.; 3 oz., 41s. 9d.; 4 oz., 41s. 6d. PHOSPHATE, ½ oz., 40s. 9d.; 1 oz., 38s. 3d.; 2 oz., 36s. 9d.; 3 oz., 36s.; 4 oz., 35s. 9d. HYDROBROMIDE and IODIDE as ALKALOID; SULPHATE as HYDROCHLORIDE.

DIAMORPHINE.—Prices per oz. are: ALKALOID, ½ oz., 54s. 6d.; 1 oz., 52s.; 2 oz., 50s. 6d.; 3 oz., 49s. 9d.; 4 oz., 49s. 6d. HYDROCHLORIDE, ½ oz., 50s. 3d.; 1 oz., 47s. 9d.; 2 oz., 46s. 3d.; 3 oz., 45s. 6d.; 4 oz., 45s. 3d.

EPHEDRINE.—Makers' quotations for the ALKALOID are from 11s. 6d. to 12s. HYDROCHLORIDE is worth 9s. to 9s. 6d. per oz.

ETHYLMORPHINE.—Current rates per oz., in the home market, are: ALKALOID, ½ oz., 57s. 6d.; 1 oz., 55s.; 2 oz., 53s. 6d.; 3 oz., 52s. 9d.; 4 oz., 52s. 6d. HYDROCHLORIDE, ½ oz., 49s.; 1 oz., 46s. 6d.; 2 oz., 45s.; 3 oz., 44s. 3d.; 4 oz., 44s.

EUCALYPTOL.—B.P. quality, in good supply, is available at 12s. 6d. to 13s. per lb., according to quantity.

GUAIACOLS.—In fair supply. Liquid is quoted at 16s. per lb.; crystal and carbonate, 15s. per lb.

HEXAMINE.—B.P. is quoted at from 1s. 5d. to 1s. 7½d. per lb., as to quantity.

HOMATROPINE.—Makers' prices per oz. are as follows (prices per gm. in brackets): ALKALOID,—1 oz., 97s. 6d.; 4 oz., 92s. 6d.; 16 oz., 87s. 6d. (4s.). HYDROCHLORIDE, HYDROBROMIDE and SULPHATE.—1 oz., 75s.; 4 oz., 70s.; 16 oz., 65s. (3s. 2d.).

HYDROQUINONE.—In bulk, 1-cwt., 8s. 4½d. per lb., 56-lb., 8s. 7d. Small quantities in 1-lb. containers (free), 10s. 6d. per lb.

HYOSCINE HYDROBROMIDE.—Makers' quotations are from 147s. 6d. to 150s. per oz., according to quantity.

HYPOPHOSPHITES.—Recently advanced in price. New rates per lb. for 7-lb. lots are: AMMONIUM, 9s. 3d.; BARIUM, 6s. 3d.; CAL-

CIUM, 4s. 11d.; IRON, 9s. 4d.; MAGNESIUM, 7s. 9d.; MANGANESE, 8s. 5d.; POTASSIUM, 6s. 1d.; SODIUM, 5s. 7d. HYPOPHOSPHOROUS ACID, in quantities of 6 Winchester quarts is 6s. 2d. per lb.

ICHTHAMMOL.—B.P. material is quoted in bulk at 4s. per lb. 28-lb. tins, 4s. 9d.; 14-lb., 5s.; 1-lb., 5s. 10½d. per lb.

IODINE PREPARATIONS.—Prices have been increased from March 17. New rates per lb., in the home trade, are as follows: POTASSIUM IODIDE, B.P.—112 lb. upwards, 10s. 8d. SODIUM IODIDE, B.P.—28 lb., 11s. 8d. IODOFORM, B.P.—28 lb., powder, 15s. 1d.; crystals, 17s. 1d. RESUBLIMED IODINE, B.P.—112 lb., 12s. 5d.

ISOPROPYL ALCOHOL.—Makers quote B.P.C. quality at 13s. 9d. per gall.

MANDELIC ACID.—Current prices are as follows: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

MERCURY SALTS.—Makers' rates per lb. are as follows: AMMONIUM CHLORIDE, B.P., powder, 9s. 9d.; lump, 9s. 7d. BICHLORIDE, B.P., powder, 8s. 4d.; lump or granular, 8s. 11d. MERCURIUS CHLORIDE, B.P., 9s. 10d. RED OXIDE, B.P.C., 10s. 6d. YELLOW OXIDE, B.P., 10s. 6d. 7-lb. lots are 6d. per lb. less than above prices.

METHYL SALICYLATE.—Current rates are as follows: Winchester quarts, 2s. 2½d. per lb.; 56 lb., in demijohns, 2s. 1d.; 1 cwt. in demijohns or carboys, 2s. 0½d.; 5 cwt., 2s. All prices net.

MORPHINE.—Prices per oz. current in the home market are: ALKALOID, ½ oz., 55s. 3d.; 1 oz., 52s. 9d.; 2 oz., 51s. 3d.; 3 oz., 50s. 6d.; 4 oz., 50s. 3d. HYDROCHLORIDE, ½ oz., 46s. 9d.; 1 oz., 44s. 3d.; 2 oz., 42s. 9d.; 3 oz., 42s.; 4 oz., 41s. 9d.; BIMECONATE and TARTRATE, as ALKALOID; ACETATE, HYDROBROMIDE and SULPHATE, as HYDROCHLORIDE.

PARALDEHYDE.—Rates for B.P. material are as follows: 5 carboys, 1s. 5d. per lb.; 1 carboy, 1s. 6d.; 24 Winchester quarts, 1s. 7½d.; 17, 1s. 8½d.; 6, 1s. 10d.; 3, 1s. 11d. per lb.

PEPTONE.—Importers' quotations are from 13s. to 15s. per lb., as to quantity.

PHENACETIN.—In limited supply. Small quantities would be worth 4s. 6d. per lb.

PHENAZONE.—Prices range from 18s. to 20s. per lb., as to quantity.

POTASSIUM SULPHOGUAIACOLATE.—Importers' quotations are from 12s. to 14s. 6d. per lb., according to quantity.

TEREBENE.—Rates per lb. are as follows: Carboys, 3s. 9d.; 24 Winchester quarts, 3s. 10½d.; 12, 4s. 1½d.; 6, 4s. 5d.

THEOBROMINE.—Current prices per lb., in quantities of 28 lb., are as follows: ALKALOID, B.P.C., 30s. 6d.; CALCIUM SALICYLATE, 19s. 3d.; SODIUM SALICYLATE, 19s. 3d.

VANILLIN.—Current rates are: 5 cwt., 22s. per lb.; 1 cwt., 22s. 3d.; 56 lb., 22s. 6d.; smaller quantities, 22s. 9d. per lb.

Crude Drugs

ALOE.—Curaçao is steady at 250s. per cwt., spot; forward, from 230s. to 240s., c.i.f. Socotrine is at 185s., spot. Cape is higher at 210s. per cwt.

BALSAMS.—CANADA.—Quoted at 15s. per lb., spot. COPAIBA.—Pará is available at 8s. to 9s. per lb. PERU.—Marked down to 8s. per lb., duty paid. TOLU.—Quoted at 18s. to 19s. 6d. per lb., according to holder; shipment, 18s. 6d., c.i.f.

BENZOIN.—Quotations for Sumatra are at £23 10s. to £27 per cwt., spot, for fair to good almondy material; afloat, £22 10s.; forward shipment, £15 to £17. A lower grade is offered at £20 per cwt., spot.

BISMUTH.—Current price for high-grade metal is 10s. per lb., in 5-cwt. parcels.

BUCHU.—Short-rounds are quoted at 4s. 2d. to 4s. 3d. per lb., spot; forward, 4s., c.i.f.

CALABAR BEANS.—Quotations are at 1s. 6d. to 1s. 7½d. per lb., ex warehouse Liverpool.

CALUMBA.—Spot quotations for washed root are from 80s. to 85s. per cwt. Natural root is offered at 55s. to 60s. per cwt.

CAMPHOR.—Chinese tablets (¾-oz.) are quoted at 11s. to 11s. 6d. per lb., spot; refined powder (B.P.), 10s. 6d. 2½-lb. slabs, afloat, quoted at 10s. 6d. per lb., landed, duty paid.

CANTHARIDES.—In good demand for small lots. Chinese, 15s. to 17s. 6d. per lb., landed.

CAPSICUMS.—East African is steady at 120s. to 140s. per cwt., according to quality.

CARDAMOMS.—Mangalore, half-bleached, A's are quoted at 8s. 9d. per lb.; B's, 8s. 3d. per lb., spot. Aleppy seeds, No. 1, are at 8s. per lb.; Aleppy greens, 7s. per lb., spot.

CASCARA SAGRADA.—Firm. Quotations are at 275s. to 290s. per cwt., duty paid, according to holder.

CASCARILLA.—Quills are quoted at 2s. per lb.; siftings 1s. 6d. to 1s. 9d., spot.

CASSIA PODS (*C. fistula*).—East Indian is steady at 90s. per cwt., ex wharf.

CHAULMOOGRA.—Quiet. *Hydnocarpus* is available at 2s. per lb., in tins in cases.

COCHINEAL.—Silver-greys, for the home trade, 4s. 6d. per lb., on the spot; blacks, very scarce, 5s. 9d. per lb.

COCOA BUTTER.—Controlled price is 1s. 7d. per lb., ex factory or warehouse.

COCONUT (DESICCATED).—Maximum controlled price is 74s. 8d. per cwt., ex store.

COLOCYNTH.—Quiet. Fine-white is steady at 2s. 3d. per lb., spot; medium-white, 2s. 1½d. per lb.

DIGITALIS.—Portuguese is steady at 130s. per cwt., spot. English-grown, 2s. 6d. per lb.

ERGOT.—Steady. Quoted at 4s. 9d. to 5s. per lb., spot; to arrive, 4s. 9d., c.i.f.

EUPHORBUM.—Quotations are at 80s. per cwt., on the spot.

GALANGAL.—Forward, 75s. per cwt., c.i.f. GENTIAN.—French natural root is quoted at 105s. per cwt.; cut, 130s., spot.

GINGER.—Jamaica No. 1 is quoted at 125s. per cwt.; No. 2, 112s. 6d.; No. 3, 102s. 6d. to 107s. 6d., spot. African is available at 75s. to 80s., spot.

GUM ACACIA.—Kordofan cleaned sorts is quoted at 76s., spot; shipment, higher at 72s. per cwt., c.i.f. Bleached No. 1, 145s., ex store. Talha, cleaned, is easier at 45s., spot; forward, 42s. 6d., c.i.f.

GUM MASTIC.—Quoted at 18s. per lb., duty paid, for No. 1, material.

HENBANE.—Indian leaf, steady at 250s. per cwt., spot.

HENNA.—Indian leaves, to arrive, quoted at 1s. 6d. per lb., landed.

HYDRASTIS.—In fair demand. Spot quotation is 60s. per lb., forward, 57s., c.i.f.

IPECACUANHA.—Firm. Nicaraguan root is quoted at 29s. to 29s. 6d. per lb.; no shipment offers are reported.

JUNIPER.—Firm. Italian berries are quoted from 56s. to 65s. per cwt., according to quality.

KAMALA.—Stocks exhausted. Nominal 3s. per lb., spot.

KARAYA.—No. 1 gum is quoted at 215s. to 220s. per cwt., spot; No. 2, 170s.

KOLA NUTS.—African quarters are quoted at 7½d. per lb.; African halves, 5d. to 6d., according to quality; Jamaican washed halves, 5½d. per lb.

LIQUORICE ROOT.—Anatolian whole root is steady at 60s. per cwt., on the spot. Turkish juice (block) is quoted at 250s. to 260s., spot; forward, 190s., c.i.f.

LOBELIA.—Spot, 6s. 6d. per lb., nominal.

MACE.—West Indian pale is quoted at 7s. 6d. to 8s. per lb., landed; pickings, from 5s. 3d. to 5s. 9d. per lb., according to quality.

MERCURY.—Spot quotations are at £20 10s. to £21 per flask, ex warehouse; for shipment, £20 6s., c.i.f.

MYRRH.—Aden sorts are quoted at £14 to £17 per cwt., according to quality; siftings, £8 to £10 per cwt.

NUTMEGS.—West Indian 80's are quoted at 4s. 10d. to 5s. per lb., spot; sound unassorted 3s. 10d.; wormy and broken, 3s. 8d. to 3s. 9d.

NUX VOMICA.—Madras, steady at 40s. to 42s. 6d. per cwt.; Mangalore, 40s.; Cochin, 42s. 6d. to 45s., spot, according to seller.

PEPPER.—Indian black, whole, 2s. to 2s. 2d. per lb., spot; ground 2s. 2d. to 2s. 4d. White, whole, unquoted; ground, 3s. 4d. to 3s. 6d., spot.

PIMENTO.—Spot, 1s. 0½d. to 1s. 1d. per lb. A quiet market.

SEEDS.—ANISE.—Cyprus, 2s. 5d. per lb., spot London or Liverpool. CARAWAY.—Dutch, quoted at 1s. 6d. per lb., duty paid, spot London. CELERY.—Indian, 1s. 6d. per lb., ex wharf London or Liverpool.

CORIANDEE.—Spot, Morocco, offered at 6s. 6d. per cwt., duty paid, ex wharf London; only small quantities of Indian are available and are offered at 65s. per cwt., ex store Liverpool. **CUMIN.**—Spot, Morocco, offered at 240s. per cwt., duty paid, ex wharf London; Cyprus, 240s. per cwt. in London and Indian at 235s. per cwt., ex wharf Liverpool or Hull. **DILL.**—Indian, 50s. per cwt., ex wharf Liverpool and 52s. 6d. per cwt., ex wharf London. **FENNEL.**—Indian, quoted at 130s. in Liverpool and 135s., ex wharf London. **FENUGREEK.**—Indian, 50s., ex store Liverpool and 52s. 6d., ex wharf London.

SENEGA.—Spot quotation, 14s. 6d. per lb. **SENNA.**—Tinnevely leaves, spot, No. 1, 2s. 2d.; No. 2, 10½d.; No. 3, 10d.; No. 4, 11d. Tinnevely pods, hand-picked, 10½d. to 1s. 4d.; manufacturing, 6d. to 6½d. Alexandrian pods, hand-picked, spot from 4s. 3d. to 4s. 9d., according to quality; medium, 2s. 9d.; manufacturing, 1s. 9d. to 2s. per lb.

SHELLAC.—Steady. Spot quotations, ex warehouse London, are as follows: F.O.T.N., pure, quoted at 350s. per cwt.; F.O. standard, No. 1, 355s.; F.O. lemon, No. 1, 380s.; F.O. lemon, No. 2, 370s.; A.C. garnet, 370s.; buttonlac, 375s. per cwt.

SQUILL.—Firm. 70s. per cwt., spot.

STROPHANTHUS.—In limited supply. Kombé seed, 100 per cent., 10s. per lb.

STRAMONIUM.—Indian leaf is easier at 55s. per cwt., on the spot.

STYRAX.—Small quantities are available at 4s. 10½d. per lb., duty paid.

TONKA BEANS.—Frosted Para is quoted at 5s. to 5s. 6d., spot, as to holder.

TRAGACANTH.—Selected grades are quoted at £155 per cwt. Other grades are as follows: No. 1 white, £145 per cwt.; No. 2 white, £125; No. 3 white, £110; No. 4 white, £85; pale leaf, £50; amber leaf, £45; dark amber, £35; brown leaf, £25; red-and-brown leaf, £20; red leaf, from £17; hogg, £12 to £15 per cwt.

TURMERIC.—Madras finger is quoted at from 105s. to 110s. per cwt., spot.

VALERIAN.—Belgian root is steady at 210s. to 240s. per cwt., according to holder.

WAXES.—CARNAUBA.—Fatty grey. Resellers price for material afloat is higher at 910s., c.i.f.; spot is quoted at 950s. per cwt. Prime yellow is quoted 1,200s., spot; and afloat, 1,150s. per cwt.; medium yellow, 1,175s., ex store. **CANDELILLA.**—Spot, 445s. per cwt.; forward is again higher at 440s., c.i.f. **BEES'.**—Dar-es-Salaam, scarce, firmer at 360s.; shipment, 352s. 6d. per cwt., c.i.f. Lindi is quoted higher at 357s. 6d. per cwt., spot; shipment, 347s. 6d., c.i.f. Bissao, spot, 350s. per cwt., duty paid; in bond, 325s. **MONTAN.**—Steady. Czechoslovak crude, 345s. per cwt., spot. **OURICURI.**—Steady. 7.1 per cent. is quoted at 510s. per cwt., spot; 2 per cent. is at 570s.

Essential and Expressed Oils

ALMOND.—B.P. sweet is available at 8s. to 9s. per lb., according to quantity.

BAY.—Steady. West Indian is steady at 7s. 6d. to 9s. per lb., spot.

CADE.—Spot, 5s. per lb., nominal.

CANANGA.—Scarce. Nominal quotation, 45s. to 50s. per lb.

CASSIA.—Steady. Quotations are from 17s. 6d. to 20s. per lb., on the spot, according to quantity.

CINNAMON LEAF.—Quotations are at from 15s. to 16s. per lb., according to quantity.

CITRONELLA.—Ceylon is steady at 12s. 9d. to 14s., spot; forward, easier at 8s. 6d. to 9s. per lb., c.i.f.

CLOVE.—English-distilled is quoted at 11s. to 12s. per lb., according to quantity.

CORIANDEE.—English-distilled oil is available at 250s. per lb.

FENNEL.—Sweet oil is steady at 25s. per lb., on the spot.

JUNIPER BERRY.—Imported oil is quoted at 40s. to 60s. per lb., according to quality. English-distilled is in the region of 85s. per lb.

LAVANDIN.—Spot quotations, 18s. to 20s. per lb., as to quantity.

LAVENDER.—French (38 to 40 per cent. esters) is steady at 55s. to 60s. per lb. Spanish (spike) is quoted at 13s. to 14s. per lb., spot.

LEMONGRASS.—Cochin is quoted at from 15s. 9d. to 18s. 6d., spot, according to seller and quantity; forward, 15s. per lb., c.i.f.

LIME.—West-Indian distilled oil is quoted at 35s. to 40s. per lb., spot.

NEROLI.—Spot is quoted at 120s. per oz.

NUTMEG.—Scarce. English-distilled oil is quoted at 77s. 6d. per lb.

OLIVE.—Controlled price of edible, 1 per cent., is unchanged at 47s. 9d. per gall. of 9 lb., ex store London, in 45-50 gall. drums.

ORIGANUM.—Spot, easier at 18s. 6d. to 19s. 6d. per lb.

PALMAROSA.—Spot, 47s. to 50s. per lb.; shipment, 40s. per lb., c.i.f.

PATCHOULI.—Seychelles, spot quoted at 140s.; to come forward, 80s. per lb. Singapore, spot, 205s.

RAPESEED.—Controlled price of crude oil is £190 per ton, naked ex works.

ROSEMARY.—Spanish is quoted at 9s. 6d. to 11s. 6d. per lb., as to quantity.

SASSAFRAS.—Brazil is priced at 5s. 6d. to 7s. per lb., spot.

THYME.—Red oil (40-42 per cent. phenols) is at 17s. 6d. to 18s. 6d. per lb.; white oil is quoted at 20s. to 21s. per lb., spot.

TURPENTINE.—Rectified (B.P.) is quoted as follows: 1 carboy, 2s. 6d. per lb.; 24 Winchester quarts, 2s. 7½d.; 17, 2s. 10½d.; 6, 3s. 2d.; 3, 3s. 4d. per lb.

MISCELLANEOUS INQUIRIES

Formulas given below may have been prepared for overseas subscribers and the inclusion of substances therein is no indication that they are available in Britain or, if available permitted to be used for the purpose.

Not Liable to Tax.—*O. W. H.*—Liquorice juice is not chargeable with purchase tax unless sold under a label indicating medicinal uses.

Use of Phosphate Fertilisers.—*K.D.F.*—Phosphates for fertilisers may be used in the form of basic slag or superphosphate, and their function includes promoting early growth, promoting better tillering in cereals, balancing the use of nitrogen, increasing food value of fodder crops, and assisting growth of leguminous crops.

Export of Medicated Confectionery.—*W. R. D.*—There is no restriction on the destination or quantity of exports of medicated confectionery. Export licences are not required for medicated sweets, but allocated materials used in the manufacture of medicinal confectionery for export are not replaced.

Tuberculosis in Poultry.—*R. M. L.*—Symptoms of tuberculosis in poultry include emaciation, unthriftiness, anæmia, and lameness. When the disease is diagnosed in a bird the flock should be tuberculin tested, the reactors killed and the non-reactors removed to fresh ground, the tests being repeated every two months until no reactors are found. The interiors of the poultry houses should be disinfected by spraying with a 5 per cent. solution of a cresol preparation after which the houses should be closed for twenty-four hours. Droppings should be burned, and infected land treated with quicklime.

Copper-plating Iron.—*B.D.G.*—The following process may be used for giving a copper finish to iron wire and similar materials:—

Clean the wire perfectly, then immerse it in a solution of copper sulphate until covered with a coating of metallic copper. Wash and immerse in a solution prepared as follows:—

Verdigris	2 oz.
Sal ammoniac	1 oz.
Vinegar	1 pint

Add water until the taste is slightly metallic, boil for a few minutes, and filter.

The articles are steeped in this liquor at the boiling point until the desired effect is produced; they should not be kept in too long, and when taken out should be washed thoroughly in hot water and dried.

Wax Polishes.—*C. M. R.*—Two formulas for wax polishes are given below:—

I	
Hard paraffin	15 oz.
Ceresin	10 oz.
Oil of turpentine	45 oz.

II	
Carnauba wax	10 oz.
Hard paraffin	5 oz.
Oil of turpentine	80 oz.

Anti-sunburn Cream.—*G.H.I.*—The following formula is suggested as suitable for a cream for preventing sunburn:—

Lanolin	10
Cocoa butter (odourless) ...	5
Beeswax	1
Avocado pear oil (or other vegetable oil)	10
Sun screen	10
Stearyl alcohol	1
Water	20
Borax	1.5
Preservative	q.s.

Melt together all the oils and fats by the aid of steam. The aqueous solution of borax is heated to 170° F. and poured into the melted fats at the same temperature with rapid agitation.

Foam Bath.—*N.P.D.*—Below are given two formulas for preparing a foam bath:—

I	
Sulphonated lorol T A	50 g.
Water	50 g.
Perfume	q.s.
Colour	q.s.

II	
Sulphonated lorol T A	50 g.
Calgon, or sodium hexameta-phosphate	10 g.
Water	40 g.
Perfume	q.s.
Colour	q.s.

The preparations should be used as follows:— Remove all soap from the bath by rinsing with hot water. Place the preparation under the direct stream of the hot water tap and run in hot water to a depth of about 4 in. This solution is then worked up to a high foam by means of the hands or bath brush, or sometimes with a special paddle containing slots or holes to produce greater agitation. The requisite amount of hot and cold water is then run in as usual. The body is massaged with the foam, using no soap.

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Tube of	20	1/3
Bottle of	100	5/-
" "	500	20/-
" "	1,000	37/6
Tablets of 3 mg. each		
Tube of	20	1/10½
Bottle of	100	7/9
" "	500	31/-
" "	1,000	58/6

*New
Strength!*

Tablets of 10 mg. each will be available from April 14th 1947 at the following list prices:

Tube of	20	3/9
Bottle of	100	15/-
" "	500	60/-
" "	1,000	117/-

All the above prices are subject to 33⅓% discount to chemists and 10% discount to doctors. 'Betaxan' tablets are exempt from purchase tax.

*Lactoflavine
also reduced*

The new list prices for Lactoflavine "Bayer" (Riboflavine) are as follows:

	Tablets 1 mg.	Tablets 3 mg.
Bottle of	20 2/6	3/6
" "	100 10/-	15/-
" "	500 45/-	60/-

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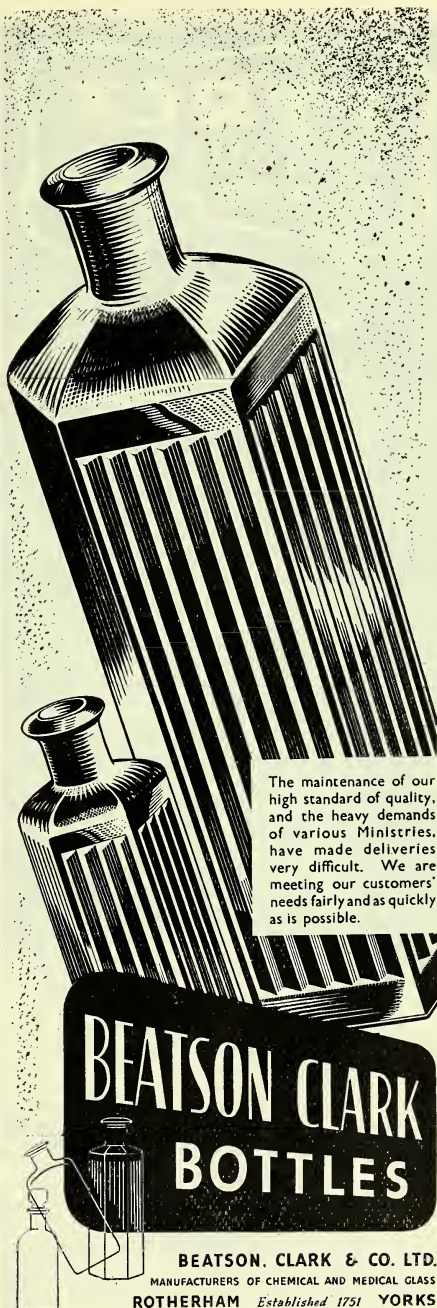
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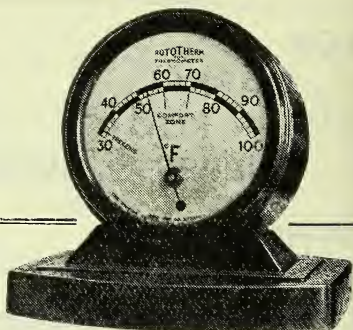
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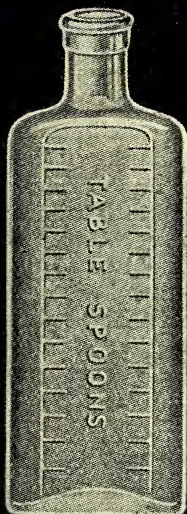
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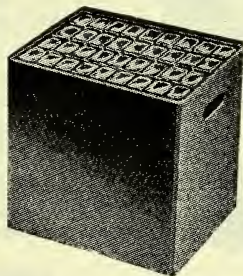
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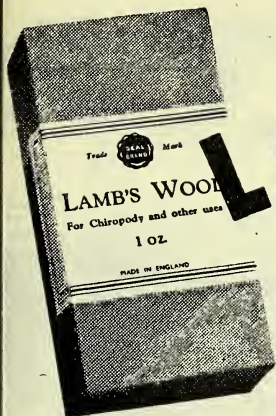
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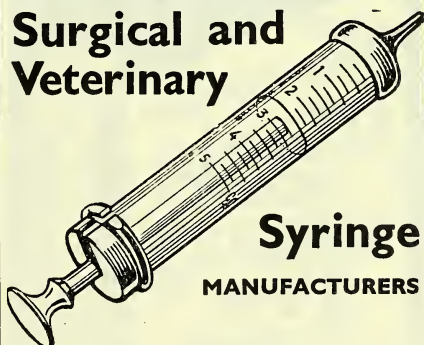
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SIEMENS ELECTRIC LAMPS AND SUPPLIES LTD., 38/39 Upper Thames Street, London, E.C.4

GOOD NEWS FLASH
Wanie
BLADES
REDUCED TO
1½^D each Including Purchase Tax
TRADE PRICE: 9/9 per gross, PLUS 3/3 per gross Purchase Tax
NOW AVAILABLE

OBTAIN YOUR SUPPLIES FROM YOUR USUAL WHOLESALE. IF ANY DIFFICULTY Apply to:

LONDON & PROVINCIAL FACTORS LTD
WANIE HOUSE 230 Tottenham Ct. Rd. London W.1.
Phone MUSeum 9646. Telegrams WANIEBLADE PHONE LONDON

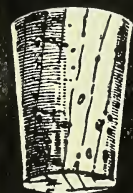
**PRESS KNIVES
& CUTTERS**

For punching or cutting out various shapes in any non-metallic material.

**PILL CUTTING
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For Colton Machine.

For good deliveries and craftsmanship consult:
CARLTON PRESS KNIVES
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When packing or purchasing Toilet or Medicinal Preparations see the bottle is sealed in the best way - i.e. by a cork the natural closure.

LI-LO
news

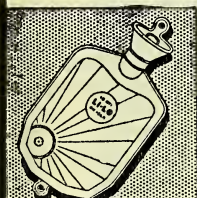
PRE-WAR LINES FOR THE NEW YEAR

And some new ones, too

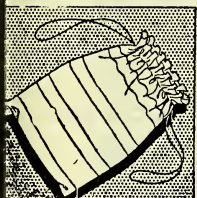
1947 SEES US getting back into production with many of the favourite and best-selling surgical goods of before the war. In addition to these established Li-Lo successes we are adding new items, including the Whirling Spray (shown here), "Travelette Spray" and an extensive range of surgical and domestic goods in plastic.

Write for trade terms to the exclusive makers of Li-Lo Products :—

P. B. COW & CO. LIMITED. ESTABLISHED 1836
12, HAY HILL, BERKELEY SQUARE, [LONDON, W.1.
TEL : REGENT 7401 (10 LINES)



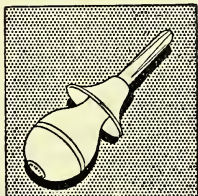
HOT WATER BOTTLE



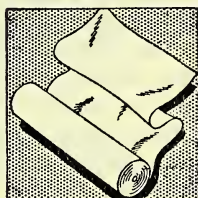
SPONGE BAG



RUBBER BABY PANTS



WHIRLING SPRAY



COT AND BED SHEETING

For the sake of your quota



send back the empties

Issued by
The Soft Drinks Industry (War Time) Association Ltd.,
42 Upper Grosvenor Street, London, W.1

CVS—60

★

ATTRACTIVE TRANSOTAPE

★



**PUTS YOUR
PACK ON A
PEDESTAL**

JOHN GOSHERON & CO LTD
GAYFORD ROAD LONDON W 12
SHE 3326 (5 lines) PW 47/14

Continuous Performance

LESS FATS. But more — much more — **SevenSeaS!** The big demand continues and will grow bigger yet. It's just commonsense on the part of millions of people who are now coping with the effects of yet another winter of scarcity — and realising that **SevenSeaS** will help them as can nothing else!

This ideal supplementary fatty food — perfect natural source of invaluable extra calories, fats and vitamins — has the fullest support of the Medical Profession. Today, with many of the right kinds of food more 'difficult' even than when we were at war, its concentrated nourishment can do much to keep everyone's health up to par.

Now that **SevenSeaS** trawlers are back at work, both the Standard Oil and Capsules are again in plentiful supply. But a number of packaging and distribution problems remain, and we ask you to order well in advance of immediate needs. This will help us to make deliveries in time.

The recent price reduction in the **SevenSeaS** Standard Oil gives you a further opportunity of demonstrating that *private enterprise* can compete successfully even with the *free distribution* by the Ministry of Food. The national distribution of pure cod liver oil makes the selling of **SevenSeaS** more than good business. It is an important contribution to the health of the Nation.

BRITISH COD LIVER OILS (HULL & GRIMSBY) LTD., ST. ANDREW'S DOCK, HULL.

**A NEW IMPROVED FORMULA
APPROVED & LICENCED**

BY THE MINISTRY OF FOOD

VINECTA

THE SUPERIOR TONIC

As from 1st April, 1947, **Vinecta Tonic** will be issued for sale to the public at the new approved Retail Prices of **4/3** and **2/6** per bottle including Purchase Tax.

MINISTRY OF FOOD LICENCE No.
FVP 7707/1946/MED.

RETAIL TRADE PROFITS

Profit per doz. large bottles . . **11/4**
" " " small " . . **6/6½**

TRADE ENQUIRIES TO :—

VINECTA PRODUCTS LTD.

Manufacturing Chemists
DEWSBURY

THE NEW

MALTOBAR

Dr. Spicer's Maltobar (free of personal points) is now available from wholesalers

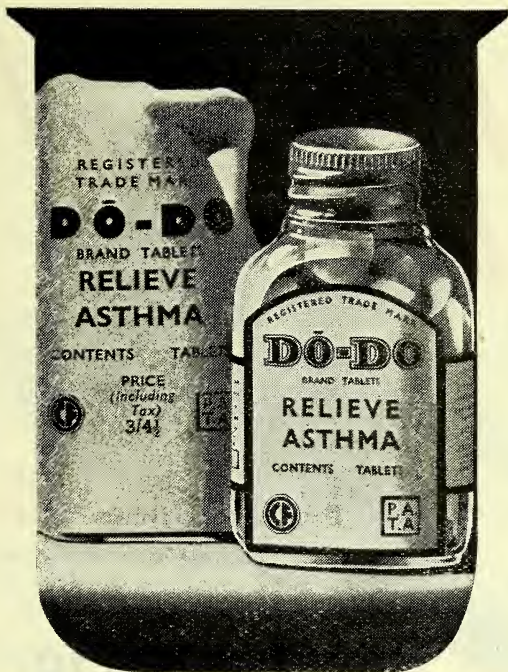
Retail **1/4** incl. purchase tax

For generous wholesale terms inquire from

AFFINED BASIC CHEMICALS LTD

**259/61 ROMAN ROAD
LONDON, E.2**

Telephone : **ADVance 1103**
Telegrams : **Basicals, Beth. London**



P.A.T.A.

D.O.-D.O.

ASTHMA TABLETS

merit your confidence and recommendation

FORMULA

Ephedrine Hydrochloride $\frac{1}{4}$ gr. Grindelia Powder $\frac{1}{4}$ gr. Acetylmethylidimethoxamid-phenylhydrazine (Pickups Ltd.) $\frac{1}{4}$ gr. Theobrom. et Calc. Salicyl. $\frac{1}{8}$ gr. Lithium Benzoate 1 gr.

THREE SIZES: 1s 1 $\frac{1}{2}$ d, 3s 4 $\frac{1}{2}$ d. and 11s 10d. INC.

International Laboratories Ltd.

1-3, SMEDLEY STREET, LONDON, S.W.8.

TELEPHONE: MACaulay 3481-3

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Breaking all records!

RECOMMENDED BY SATISFIED
CUSTOMERS AND BACKED BY
CONSISTENT ADVERTISING



JOHNSON'S SPECIAL IODISED THROAT TABLETS

Can be strongly recommended for
all throat irritations. A small hard
tablet, pleasant to taste.

10¹/₂
INC. TAX

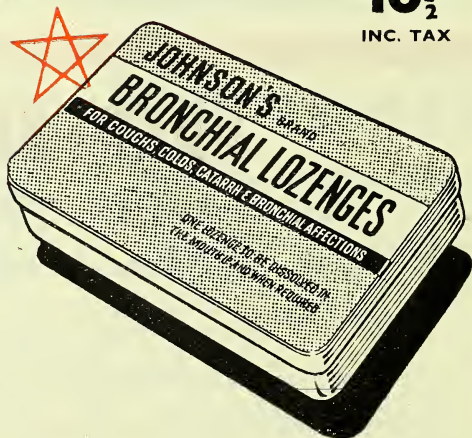
JOHNSON'S BRONCHIAL LOZENGERS

Year by year the sale of **JOHNSON'S
BRONCHIAL LOZENGERS** are increas-
ing. Make sure you have an ample
supply in stock—**YOU WILL BE
ASKED FOR THEM**

1/3 INC.
TAX

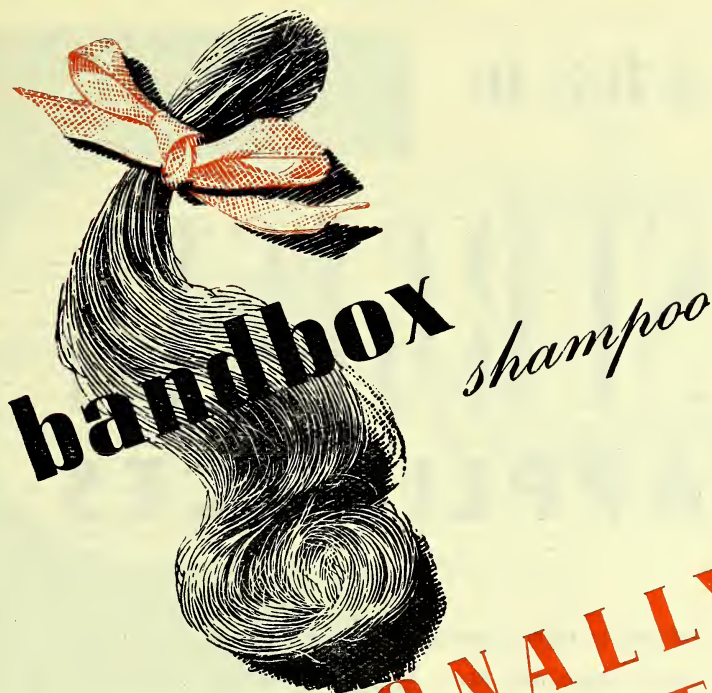
USUAL TRADE TERMS

DIRECT OR FROM YOUR WHOLESALER



You can rely on preparations distributed by :

JOHNSON AGENCIES (PROPRIETARIES) LTD
CLARENDON WORKS, CLARENDON ROAD
CROYDON, SURREY



**NATIONALLY
ADVERTISED**

30,000,000 women constantly see this famous curl in the National Press. Bandbox is now their number one shampoo. Repeat sales leave no doubt of this. Bandbox removes all dandruff, dust and surplus oil. Leaves no deposit. Rinses out quickly. Bandbox leapt into fame overnight and no wonder!

2/- size 13/6 doz }
3/9 size 25/6 doz } plus 33½% purchase tax . . . shows you over 30% on selling
7/6 size 51/- doz }

ASHE LABORATORIES LTD · 120 VICTORIA ST · SW1 · ALSO LIVERPOOL & GLASGOW

1830 — 1947

SURGICAL APPLIANCES

EXPERTS IN SPECIAL ARTICLES MADE TO MEASURE, LADIES' AND GENTS' ABDOMINAL BELTS FOR ALL PURPOSES. SUSPENSORY BANDAGES, ELASTIC HOSIERY, TRUSSES (spring and elastic)

Wholesale Dealers in Medical Glass, Surgical Dressings, Invalid and Nursing requirements, General Sundries. Distributors P.A.T.A. and C.F. Lines

J.H. HAYWOOD
11, WARSER GATE LTD.
NOTTINGHAM

Enquiries invited

TELEPHONE: NOTTINGHAM 40488 and 45164

TELEGRAMS: APPLIANCE, NOTTINGHAM

for
healthy
hair—



NODAN—prepared from a highly scientific formula — clears dandruff and scurf and retards baldness. It penetrates deeply, acts *quickly*.

Price to public
3/10½ inc. tax

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Display material available

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SPECTACLE FRAMES AND SUNGLASSES

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HOME TRADE AND EXPORT

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WHOLESALEERS ONLY

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HIGH HOLBORN
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Telephone : HOLborn 8308

An advance in Asthma medication

Respaton
TABLETS

Indication

Respaton Tablets are specially indicated for the speedy relief of Asthma, Bronchial Asthma, Bronchitis, Emphysema and cognate ailments.

Action

Respaton Tablets are : Antispasmodic, Antipyretic, Analgesic, Sedative.

Formula

Ephedrine Hydrochloride...	1	4	grain
Ext. Bellad. Sicc. B.P. ...	1	17	..
Dioxyamidopyrine ...	1	10	..
Ipecac. Pulverat. B.P. ...	1	10	..
Theobromine
Calcium Lactate
Lactose

Respaton Tablets are now being introduced to the Medical Profession. Chemists would be well advised to lay in a small stock in anticipation of prescriptions.

In Bottles 25 tablets 3/11½d.; 100 tablets 14/1d., inc. P.T. Usual trade terms.

MEDICAL SPECIFICS LTD.

West India House
Maryland Street, Liverpool, 1.

ZEAL

Clinicals

*The Choice
of Experts*

BRITISH
MADE



NO HIGHER
IN PRICE THAN
NONDESCRIPT
MAKES

Also Household, Bath
and Works Thermometers,
the best of their kind

G. H. ZEAL LTD.
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32,000,000 GALLONS of LIQUINURE SOLUTION

are used every year, and the demand for this important liquid plant food is still increasing. Be sure to have a good stock for spring and summer when our national advertising will be at its height.

Sold in
2/6
bottles

Obtainable
from your
wholesaler

LIQUINURE SALES
27 BURNT OAK BROADWAY
EDGWARE - MIDDIX.

LIQUINURE

LIQUID PLANT FOOD



Prepare NOW for a BIG SUMMER DEMAND

for these fast selling lines

"DiDiT" Powder and
Liquid Insecticides and
Fly Papers

TICK Insect Powder

Apply for Bonus Terms

RODMILL CHEMICAL CO. LTD
2-4 ISLINGTON ROW, LIVERPOOL, 3

QUIZ

MARK YOUR TYPE BELOW

Waiting for supplies which
never come.

Writing to Briccas to get
details of how to make
Haircreams and Toilet Pre-
parations sold under my
own name.

BRICCAS LIMITED
FORTRESS GROVE, LONDON, N.W.5

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B.

THE GLEANER
RE CO
SUPER KEEN BLADE
MADE IN SHEFFIELD ENGLAND

Gleaner
DOUBLE EDGED BLADE
FITTING ALL TYPES OF 3 PEG RAZORS
12 BLADES

A PRODUCT OF THE PIONEERS OF
BRITISH SAFETY RAZOR BLADES

BY JOHN WATTS (SHEFFIELD & LONDON) LTD
ESTABLISHED OVER 150 YEARS

JOHN WATTS
(SHEFFIELD & LONDON LTD)
LAMBERT WORKS, SHEFFIELD, 3.
LONDON: 18, SOHO SQUARE, W.1.

Applied Before Work



Keeps Hands Clean

Limited Supplies now available
through recognised Wholesalers

Only Pack (Temporary) available
Tins retailing at 2/1d. including
purchase Tax

Retail discount 25%

ROZALEX LIMITED

10 Norfolk Street, MANCHESTER 2

*Still
Urgently
Needed*

empty San Izal cases

The quick response by the Trade to our appeal for the return of San Izal packing cases is much appreciated. But there is still an urgent need for more and more cases to be returned promptly if future deliveries are to be maintained.

Please go on emptying your San Izal Fibre board cases as quickly as possible and put them ready, complete with inner divisions, for collection by Container Recovery Service.

*If you have any difficulty over
collections please write to us.*

**NEWTON, CHAMBERS AND
COMPANY LTD.**

THORNCLIFFE, Nr. SHEFFIELD



14T

GREATER DEMAND— but LESS supply!

The recent coal cut has held up the delivery of raw materials for Water-glass. We regret that we may be obliged to limit supplies to our customers. Quantities despatched against orders will be consistent with supplies available at the time.

Goodall's WATERGLASS

GOODALL, BACKHOUSE
& CO. LTD.

SOVEREIGN STREET, LEEDS.

RHUMUV

again but
IN CAPSULE FORM

- IMPROVED FORMULA
- NEW PACK
- APPROVED BY



Rhumuv Capsules give maximum relief from rheumatic pains, headaches, neuralgia, influenza, feverish colds, etc. Attractive trial show outer now available, containing 6 x 3/6d Rhumuv Capsules @ 24/- doz.

—12/- + P.Tax 2/- = 14/-

1 only 6/6d. Rhumuv Capsules @ 44/6d.

per doz. = 3/8½d. + P.Tax 7½d. = 4/4d.

Postage Free per carton.

Total cost - 18/4d.

Orders filled in strict rotation from—

Simpkins of **Sheffield**

CELLON SERVICE

FOR INDUSTRIAL WELFARE

FOR HEAD LICE

CELETANE

(Regd.)

Medicated (Lethane) Hair Oil—N.W.F.
Undetectable in use. Rapidly effective.

FOR SCABIES

BENZELIA

(Regd.)

Benzyl Benzoate—25%

An emulsion of high efficiency,
which is an extremely effective
treatment

Further information, samples and prices upon request
KINGSTON-ON-THAMES
KINGSTON 1234 (5 lines)

CELLON LABORATORIES

LIMITED

IF YOU'RE OUT OF ONE RECOMMEND THE OTHER



In these days, when, do what we will, we cannot always cope with demand, there is an added advantage in the two kinds of Parmint and their three sizes. All our Press advertising features both Parmints and mentions all their prices. At the moment the 1/5 ready for use Parmint Syrup is in short supply. If you are temporarily out of stock, recommend your customers to take a 2/10 bottle or a 3/1½d. bottle of the Parmint Concentrated Essences.



and

P.A.T.A.

INTERNATIONAL LABORATORIES LTD:
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malnutrition

The marvellous nutritive power of yeast is well known. By adding real value to your food VIRDOX corrects malnutrition, lack of appetite, weariness, digestive troubles, skin affections, anæmia, "nerves." VIRDOX re-energises young and old.

VIRDOX
REGD.
nutrition

Agents appointed for areas not yet represented.

RDOX, 75 KINGSWAY, LONDON, W.C.2.

**THERE IS NOT
SUFFICIENT**

Beulah's

**FAMOUS
MALTED MILK**

*For all the people
who want it.*

Our policy therefore is to distribute all available supplies to our Chemist Friends only.

In one popular size
only at present ... **2/3**



**J. & J. BEULAH LIMITED
BOSTON Lincs.**



IMPORTANT VITAMINS

concentrated in small, palatable capsules, providing a convenient form of multiple vitamin administration. ABBOTT'S Penta-Kaps—each capsule containing not less than:

Vitamin A ...	4,500 Int. units	Vitamin B ₂ ...	20 Sherman units
Vitamin D ...	600 Int. units	Vitamin C (pure as-	
Vitamin B ₁ ...	75 Int. units	corbic acid 10mg.)	200 Int. units



Concentrate of Vitamins
A.B.₁. B.₂. C and D

ABBOTT'S Penta-Kaps, each of which represents little more than two calories, may be administered at all seasons without discomfort to the individual or interference of diet.

Price List and Literature on application.

Supplied in bottles containing 25, 100 or 250 capsules.

ABBOTT LABORATORIES (ENGLAND) LTD
WADSWORTH ROAD, PERIVALE, MIDDLESEX

INCREASE . . . your production your goodwill and your profits!

Our factory and laboratory is at your disposal. We are ready now to prepare, bottle, and pack your pharmaceutical or cosmetic products, under your own name. Our highly qualified chemists exercise strict laboratory control throughout every process. We can manufacture to your own requirements or use our own formulæ, from which we can prepare:

Antiseptic Germicide (3 times more effective than pure phenol by R. W. Test).
Influenza Mixture.
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Cod Liver Oil.
Sweet Almond Oil.
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Ammoniated Tincture of Quinine, etc., etc.

Send for full particulars of our resources, stating exact details of your regular requirements to 156/249, C. & D. Office.

**Healthy babies
Happy mothers**

You can recommend Drury's Infants' Preservative with every confidence. It is safe, effective, and a most excellent remedy for Wind Spasms, Griping pains, and other distressing complaints incidental to infants at the period of cutting their teeth.

**DRURY'S
Infants' Preservative**

DRURY'S PHARMACEUTICALS LTD. NEWBURY ENGLAND

DR. NIBLETT'S VITAL RENEWER NERVE SEDATIVE

TRADE TERMS—33½% to Chemists or through your Wholesaler.

Retail Price 5/- per bottle, including tax.

Prepared by **C. P. NIBLETT** Est. 1870

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RICHMOND, SURREY. Phone: RIC 3221

SHERLEY'S always make Regular Customers!

To be sure of a fair share of the big, regular demand for the Sherley's preparations please order well ahead—empty shelves can only mean disappointment. There is no treasure like a regular customer. He is the mainstay of profitable trading; a source of valuable good will. Adequate stocks of Sherley's Dog and Cat Medicines will keep the "regulars" happy and turn many a "casual" into a good friend.



SHERLEY'S DOG MEDICINES

F. SHERLEY & CO. LTD., 16/18 MARSHALSEA ROAD, LONDON, S.E.1

For
INVALIDS
only

ape sugar, phosphates and vitamins are all contained in Winox—only a wine but a predigested and acceptable to enfeebled digestions. Because supplies are short, please help us to reserve available stocks for invalids only.



WINOX

THE MEAT AND MALT WINE

AUFOYS WINES LTD., VILLIERS ROAD, KINGSTON.
Sole distributors to the Pharmaceutical Trade:
HOOKS & Warburton LTD., 232 VAUXHALL BRIDGE RD., S.W.1.

*Generous direct display terms
for* **QUICK-SELLING**

SELTO
Dental Salt

13 TO THE DOZEN—33½% DISCOUNT

Recommended by Dentists in all parts of the Country. Link up with increasing demand on direct display terms—13 to dozen—33½% discount. Bottles 1/10½, retille 1/7 (inc. tax).



SELTO (Eastbourne) Ltd.
Hampden Park Eastbourne



3/- and 5/-
PER BOTTLE

Extensive advertising has created a big customer demand for this grand family tonic. Cash in and get your fair share of this big profitable business.

NO LICENCE REQUIRED.

VIRONITA

THE FAMILY TONIC

VIRONITA IS FAST SELLING AND PROFITABLE

M. CALTHORPE & COMPANY LIMITED. Manufacturing Chemists OSSET

Enolin

TOOTHPASTE & DENTIFRICE

FREE £200

**DRAWING and PAINTING
COMPETITIONS for CHILDREN**

*with £80 in additional
cash prizes for STOCKISTS!*

IF YOU HAVE NOT ALREADY
RECEIVED DETAILS, WRITE NOW
to ENOLIN (1926) LTD.,
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NOW AVAILABLE

Eade's

**UNIVERSAL
ANODYNE**

RETAIL
(Inc. Pur. Tax)
1/5
3/4

P.A.T.A.

WHOLESALE
(Plus Tax)
11/3 doz.
27/- doz.

EADE'S RHEUMATIC & GOUT PILLS

RETAIL
(Inc. Pur. Tax)
1/5
3/4
5/8

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(Plus Tax)
11/3 doz.
27/- doz.
46/- doz.

EADE'S PILLS LTD. (Dept. C. & D.)
232 GOSWELL ROAD, LONDON, E.C. 1
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**PUBLIC
GOODWILL**

Box's Pills have kept this
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years and the demand now
is greater than ever.

P.A.T.A.

PRICES
(Inc. P. Tax)

1/3 3/-
4/10½

12/- & 21/9



Box's Pills

W.H. BOX
161
KING STREET,
PLYMOUTH

D. Bee

**Medicinal and
Food Products**

announce that they are able to
offer Prompt Delivery of their pure
HONEY, GLYCERINE & LEMON

Cough Linctus

a popular product at a popular price, made
from real Lemon Juice, pure Honey and
Glycerine. The ingredients speak for them-
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this quick-selling line.

Ask also for particulars
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Vincent Street,
Glasgow, C.2.

**FLAVOURING
ESSENCES**
In 1 oz. bottles
17 favourite fla-
vours: Butter (a
pure food product
flavour), Egg
Coconut, etc.

ade terms from

Bee Food Products Ltd., New Charles St., Goswell Rd., E.C.1

**INCREASED
NATIONAL
and LOCAL
ADVERTISING
FOR**

ZAC

*Super Products
for Babies and
Family use*

COMPOUND Super CREAM
(ZINC, CASTOR OIL, ETC.)

DUSTING POWDER

GRIPE MIXTURE

SYRUP OF FIGS

★ **BONUS TERMS
FOR GROSS LOTS
ORDER NOW!**

Made by :-

HOUGH, HOSEASON & CO. LTD.

Manufacturing Chemists

LEVENSHULME - MANCHESTER



MEMBERS OF THE P.A.T.A.

MARKSMAN

Sponges

Supplies are still limited but orders
will receive prompt attention.

Leslie Marks & Company Ltd.

Importers and Exporters of Fine Sponges,
Chamois Leather Dressers.

& 9 EARLHAM ST., CAMBRIDGE CIRCUS
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*Most women
prefer*

to keep hair tinting
a secret, giving the
chemist a definite
advantage and a
source of continu-
ous orders.
Simple for everyone
to use at home. Most
attractive packing
and Show material.



Dyesha

14

Natural
Shades.

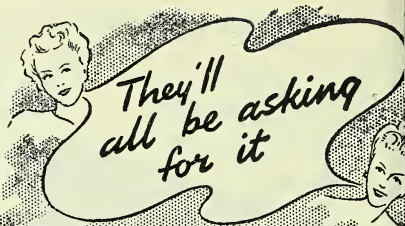
Stock also Soap-
less DYESHA
VITAMIN 'F'
SHAMPOO.

THE MODERN HAIR DYE

Enquiries to—

DYESHA LTD., London, W.11

Phone: PARK 8373



HOSE GUARD

A LADDER STOP—

**NOT
A NAIL
VARNISH**

HOSE GUARD stops ladders
instantly, yet the material
remains soft; it does not harm
the finest stocking or prevent it being invisibly
mended.

HOSE GUARD is a chemical solution made
especially for hosiery; has been acclaimed by many
leading actresses and is nationally advertised.

Supplied in small bottles for the handbag
at retail at 1/6d. Attractive display packs ready for
your counter containing 2 dozen bottles.

Obtainable from

SALE TILNEY & CO., LTD.

3, LLOYDS AVENUE, LONDON, E.C.3.

RAW MATERIALS

ALL GRADES FOR ALL TRADES

Including Manufacturing Chemists, Foodstuffs,
Mineral Water, Bakery and Confectionery,
Leather, Textile, Paper, Laundry and Dry
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HIGHEST QUALITY GUARANTEED

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We have many PROFITABLE
lines of interest to you. Call
at our Warehouse and make
your selection.

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Del Vost

ALL PURPOSE CREAM

*Advertising schedule now includes 21
Women's Magazines as well as extra
National Newspapers*



*Creme Del Vost—a perfect foundation
for Make-up or Powder by Day and a
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and 1/8½*

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Manchester, 10

Scotland
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Northern Ireland
Messrs. United Chemists Supplies
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Belfast

HOW HIGH is UP

*Have you noticed that
the prices of cosmetics
(now advanced by
Board of Trade con-
sent) vary in the
amount they have been
put up*



It is to your interest to note that Evan Williams have NOT increased the prices of their lines with the one exception of their WAVE SET which has been increased by 1½d. only. Compare this increase with those of other lines and note that your own percentage of profit is fully maintained.

Chemists may rest assured that their quota of all Evan Williams controlled lines are available direct through our representatives, who are responsible for the continued distribution of the maximum allocation in their territories.

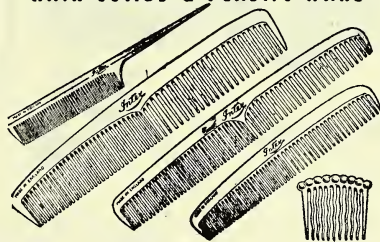
**EVAN WILLIAMS
CO. LTD.**

PERIVALE - GREENFORD - MIDDX.

Intex
REGD

NAME
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